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Covid-19 and Pro-Sociality: How Do Donors Respond to Local Pandemic Severity, Increased Salience, and Media Coverage?

Abstract

Has the COVID-19 pandemic affected pro-sociality among individuals? After the onset of the pandemic, many charitable appeals were updated to include a reference to COVID-19. Did donors increase their giving in response to such changes? In order to answer these questions, we conducted a real-donation online experiment with more than 4,200 participants from 149 local areas in England and over 21 weeks. First, we varied the fundraising appeal to either include or exclude a reference to COVID-19. We found that including the reference to COVID-19 in the appeal increased donations. Second, in a natural experiment-like approach, we studied how the relative local severity of the pandemic and media coverage about local COVID-19 severity affected giving in our experiment. We found that both higher local severity and more related articles increased giving of participants in the respective areas. This holds for different specifications, including specifications with location fixed effects, time fixed effects, a broad set of individual characteristics to account for a potentially changing composition of the sample over time and to account for health- and work-related experiences with and expectations regarding the pandemic. While negative experiences with COVID-19 correlate negatively with giving, both approaches led us to conclude that the pure effect of increased salience of the pandemic on pro-sociality is positive. Despite the shift in public attention toward the domestic fight against the pandemic and away from developing countries' challenges, we found that preferences did not shift toward giving more to a national project and less to developing countries.

JEL-Codes: C930, D640, D120.

Keywords: Covid-19, charitable giving, online experiments, natural experiments.

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1 Introduction

Locally occurring natural catastrophes seem to increase international solidarity (Scharf et al., 2017). However, the global spread of COVID-19 has been unprecedented, meaning that it is not clear what types of behavioral responses it will generate. Anecdotal evidence tells of helpful neighbors who go shopping for the vulnerable, donate food, or sew homemade face coverings for nursing homes.¹ Other individuals have been less benevolent: Some have even gone as far as engaging in racist attacks on members of ethnic groups who have been blamed for spreading the disease (Devakumar et al., 2020; Lu & Sheng, 2020). Moreover, since the beginning of the COVID-19 pandemic, attention has shifted away from once-prominent concerns, including the refugee situation and famine in developing countries. To regain attention, many charities started using references to COVID-19 in their solicitations, even when asking for donations for projects that are not directly related to the pandemic.

In this project, we set out to understand how pro-sociality has changed during the COVID-19 pandemic. In order to answer this question, we adopted a twofold approach. First, in an online experiment, participants saw a donation ask for Save the Children. For the treatment group, we added a reference to COVID-19 to make the pandemic more salient. The additional paragraph pointed to the negative consequences of the COVID-19 pandemic faced by children but did not refer to any pandemic-specific relief actions by the charity. This approach was meant to draw the attention of readers to the pandemic while minimizing any other differences between the two appeals.² The participants subsequently divided an additional bonus between their own account and a donation. This approach allowed us to provide clean causal estimates of the COVID-19 reference in the appeal. Second, in a natural experiment-like approach, we explored differences across local areas and time in the relative local severity of the pandemic and the extent of media coverage about local COVID-19 severity. We exploited the variation of COVID-19 severity and media coverage in each of the 149 English Upper Tier Local Authorities (UTLA) over 21 weeks. We analyzed whether those differences could explain the variation in donations collected in the online experiment. Importantly, in the most conservative specification, we controlled for time fixed effects, location fixed effects, and accounted for a potentially changing composition of the sample by controlling for an extensive set of individual characteristics of participants. This means that our findings cannot be explained by time effects such as countrywide economic trends or changes in media attention (e.g. due to the occurrence of other natural disasters). Our findings likewise cannot be explained by a correlation between the share of COVID-19 cases and location-specific characteristics. They are also independent of socioeconomic factors, changes in individual work-related or financial situations, and health conditions due to the COVID-19 pandemic, changes in expectations for the development of these factors in the future. Consequently, we interpret

¹See www.cnn.com/2020/09/15/how-individuals-in-the-us-helped-their-neighbors-through-covid-19.html or www.abcnews.go.com/US/wireStory/volunteers-sew-masks-health-workers-facing-shortages-69764445, viewed on November 23, 2020.

²In an additional survey experiment, we confirmed that participants did not perceive significant differences between the appeals on other dimensions.

our results as the effect of a relative increase in the pandemic’s severity and pandemic awareness.

Our results show that appeals with a COVID-19 reference increased charitable giving. This confirms that the strategy used by charitable organizations to include references to the pandemic likely paid off and that intuition of fundraisers was correct.³ We also found that higher relative local severity of the pandemic as reflected by a greater share of individuals testing positive for COVID-19 resulted in more giving in the experiment by participants from respective areas. Similarly, more media coverage about local COVID-19 severity increased giving as well. This shows that, overall, increased salience of the COVID-19 pandemic has made people more willing to help less fortunate individuals. This holds despite the fact that those facing more negative health and economic consequences donated less on average. The findings in the experimental part and the results related to media coverage suggest that the attention shift toward COVID-19 is one of the important channels by which the pandemic affected pro-sociality.

In the experiment, after the donation decision, participants were asked to divide their donation between Save the Children’s UK and global programs. Although we conjectured that the attention shift toward the pandemic, due to both the COVID-19 reference and the higher incidence, would shift donations toward the national project, we failed to reject the null hypothesis of no effect. This suggests that the pandemic had not made people in the UK more nationally oriented in this respect.

The number of economic studies on COVID-19 is increasing rapidly, though papers relating to pro-sociality and giving in this context remain rather scarce. This is surprising given the dramatic effects of the pandemic. The health and economic situations of millions of people in both poor and rich countries have been negatively affected: People have lost or are at risk of losing their work and income, are at risk of falling into extreme poverty, and face hunger. This extreme situation requires global solidarity in order to lessen the health, social, and economic consequences of the pandemic.

Related studies in the field of COVID economics include Brañas-Garza et al. (2020). In an online survey conducted during a six-day window, the authors asked participants from southern Spain to divide a €100 prize between themselves and a donation. They found that participants aged 30 years and older had decreased their giving significantly between the first and last three days of the survey,⁴ which they relate to the increase in the number of COVID-19 cases over time. It is, however, not clear whether this change in average donations was related to different reactions to the increasing number of cases, to the more pronounced economic consequences, or to other differences over time. Abel and Brown (2020) experimentally studied how COVID-19-related behaviors of crowds and public officials presented in the media, like mask wearing or distancing measures, affect charitable giving and volunteering. They found that watching a short clip that depicted positive behavior of crowds or negative behavior of public figures increased pro-sociality, while depictions of negative behavior of

³A number of recent studies on charitable giving have shown that fundraisers sometimes have an inaccurate understanding of what is effective in increasing charitable giving. See for example Samek and Longfield (2019).

⁴Younger participants did not change their giving significantly.

crowds and positive behavior of public figures decreased pro-sociality. Abel et al. (2021) found that debiasing people’s own risk perceptions did not affect donations to a COVID-19 emergency fund but did decrease the amount of time invested in learning how to protect older people. However, providing information on the risks faced by older people helped to counteract these negative effects. A study by Campos-Mercade et al. (2021) shows that more pro-social individuals are more likely to follow physical distancing guidelines, stay home when sick, and purchase face masks.⁵

In addition to our paper’s relevance to the field of COVID economics, we contribute more broadly to the literature on the impact of extreme circumstances on individual behavior. While there are a number of experiments that study behavior under laboratory-induced stress,⁶ real-world (causal) studies are especially scarce (Kowalski-Trakofler et al., 2003).⁷ Charitable giving and humanitarian aid in the aftermath of natural disasters has been studied by Eiseensee and Strömberg (2007), Jayaraman et al. (2020), Scharf et al. (2017), and Strömberg (2007). Understanding the effects of extreme circumstances like natural catastrophes and conflict situations on pro-sociality and generosity is crucial, as not all governments are able or willing to support people in need and international relief may be limited in such contexts.

Natural experiment-like approaches have been used to study the effect of natural disasters on charitable giving by, among others, Deryugina and Marx (2021). Online experiments to study pro-sociality have been applied by, among others, Chen et al. (2010), Diederich et al. (2020), Exley and Petrie (2018), and Goette and Tripodi (2018).

We proceed as follows. In Section 2, we present the design of the experiment and our hypotheses. In Section 3, we describe the analysis and main results. Section 4 concludes.

2 Design of the experiment and hypotheses

It is challenging to arrive at clean causal estimates of the effects of the COVID-19 pandemic on pro-sociality. Comparing giving decisions over time (before, during, and after the pandemic) would not be reliable, since additional time factors other than the spread of COVID-19 could influence the behavior under study. When comparing more with less affected areas, various correlations might seriously bias the estimates: Areas with more highly skilled workers might be less economically affected because highly skilled workers are more likely to switch to remote work. In tourism-dependent and economically underdeveloped areas, workers might be more likely to lose work or to receive lower remuneration.

⁵Further related papers include Allen IV et al. (2021), Andersson et al. (2020), Arroyos-Calvera et al. (2021), Grimalda et al. (2021), Jeworrek and Waibel (2021), Kiss and Keller (2021), Li et al. (2020), Lotti (2020), Mahmoud and Meyer (2021), Müller and Rau (2021), Shachat et al. (2021), Sheth and Wright (2020), Wong and Yang (2021), and Yue and Yang (2021).

⁶See Grossman and Van Der Weele (2017) for charitable giving and Delaney et al. (2014) for financial decisions under cognitive load.

⁷Examples of the latter include changes in behavior due to disasters (Filipski et al., 2019; Frey et al., 2011; Hanaoka et al., 2018) or due to crises and wars (Adena et al., 2020; Voors et al., 2012).

Even if a study could overcome the aforementioned challenges of empirical identification, it would face additional problems because the pandemic as such likely affects pro-sociality through different (potentially competing) channels. These channels might include, a growing awareness of the pandemic; a deterioration in respondents' own economic situations, health, or the health of close family members; or respondents' fears about the future. While we expected the first factor—awareness of the pandemic—to increase solidarity, the remaining factors (especially the economic ones) could reduce the willingness to give. The exact timing of decision making or regional specifics may determine which of those factors prevails. While at the beginning of the pandemic, people may not have experienced negative effects on their individual economic situations, this might be the case in later periods. Likewise, the opposite could be the case: The feared negative consequences might not have come to pass in the expected way.

Regarding the economic and health channel as well as the role of fears, we can only get as close as to correlational evidence, since we cannot exogenously vary these factors. Therefore, in this paper, we set out to causally identify one of the channels: awareness of the pandemic. For this reason, we used two complementary approaches: an online experiment and a natural experiment.

Our first approach made use of an online experiment in order to test the role of experimentally induced attention shift. In the donation appeal, we adopted a strategy similar to those recently used by charities and provided additional information to direct participants' attention toward the COVID-19 pandemic, while supplying the control group with an appeal with no COVID-19 references whatsoever. We made sure that the donation ask was a general one in both conditions, since participants might have been more (or less) likely to donate to a more specific project (Kessler et al., 2019).

Because our study employs randomization, the approach we chose ensures that factors pertaining to individuals' economic and health-related situations should be equal between the control and treatment groups (we test this in Table A1 in the Appendix). The only remaining factor is the exogenous attention shift, which we expected to increase solidarity. This led us to formulate the following hypothesis:

H1: *The COVID-19 reference increases donations.*

In order to better understand the mechanism behind the potential treatment differences, we employed an additional survey experiment with new participants from the same subject pool who answered a number of unincentivized questions regarding their perceptions of the appeal after reading either the control or treatment version. In the Online Appendix, Section E, we describe the design of this additional survey experiment in more detail.

Our second approach made use of a natural experiment: The severity of the pandemic developed differently in local areas over time. In the post-experimental survey, we asked participants for their (self-reported) area of residence, which we matched to the Upper Tier Local Authority (UTLA) for which COVID-19 cases were

available in England.⁸ While each individual participated only once in the experiment, over 21 weeks, all 149 local areas were represented in the experiment. We studied England because it was one of the most affected countries in Europe at the time, with over 1.2 million cases and 50,000 deaths related to COVID-19 by the end of November 2020, and because it offered good local data availability. Figure A3 in the Appendix shows the number of cases per day and the dates of the experimental sessions. We collected the numbers of lab-confirmed cases of COVID-19 for each local area over time.⁹ Given different testing strategies and thus a different meaning of the absolute number of cases at the beginning of the pandemic versus later on, we used a relative measure: the share of cases in a specific UTLA up to date, relative to all cases. However, we tested the robustness of using different absolute measures as well. On top of this, we controlled for an extensive set of individual characteristics that accounts for the potentially changing composition of the sample over time. We also tested the sensitivity of the estimate to those characteristics, which also helped us to assess the potential effect of unobservables. Controlling for time fixed effects, location fixed effects, health and work-related experiences, financial characteristics, and changing expectations allowed us to distill the effects of local severity that do not work through economic channels or expectations, such as a deterioration in respondents' own economic situations, health, or the health of close family members; or respondents' fears about the future.

Given that we expected the pandemic to affect pro-sociality via a variety of competing factors, we had no prior expectations regarding the direction of the overall effect and formulated an open hypothesis:

H2A: *Individuals in relatively more affected areas give more than individuals in relatively less affected areas.*

H2B: *Individuals in relatively more affected areas give less than individuals in relatively less affected areas.*

In a similar vein, we studied the effect of media coverage about local COVID-19 severity. We searched through articles published within the seven days prior to each experimental session in the online editions of 13 daily newspapers, plus the corresponding Sunday edition if available (The Times, The Sunday Times, The Independent, The Telegraph, The Guardian, Observer Magazine, i, Daily Express, Sunday Express Mag, Daily Mail, Daily Mirror, The Sunday Mirror, The Sunday People, Daily Record, Sunday Mail, Daily Star, Daily Star Sunday, The Sun, London Evening Standard, Metro), as well as on BBC Online. The search query was (“covid” OR “corona” in article title) AND ((“cluster” OR “hotspot” OR “hot spot”) AND (“infection” OR “case” OR “spread”) AND (location name) within a three-sentence range). This search resulted in more than 5,800 articles (see Figure A4 showing the distribution of articles over time and local area).

Most studies on local versus global preferences in charitable giving suggest that donors prefer local goals, but some show the opposite,¹⁰ and there are many well-supported charities pursuing global projects. In this

⁸There are 151 UTLAs, but COVID-19 cases were reported for two UTLAs jointly in two instances, resulting in 149 units used for the analysis.

⁹These data are accessible at www.coronavirus.data.gov.uk. Alternative measures like hospitalized cases and deaths are only available at a higher level of aggregation.

¹⁰This literature includes studies by Adena et al. (2019), Alger et al. (2020), Brown et al. (2017), Gallier et al. (2019), Genç et al. (2021), Grimson et al. (2020), Meer (2014), and Whillans et al. (2017).

study, we did not so much seek to answer the question of local versus global preferences in charitable giving. We rather hypothesized that the global pandemic and related media coverage shift individuals' attention from distant problems toward more local goals. Consequently, we expected donations to shift from global to local causes. For the above described treatment condition, which shifts individuals' attention toward COVID-19, we formulated the following hypothesis:

H3: *The national project benefits more from the COVID-19 reference than the global project.*

In a similar vein, we expected that:

H4: *Individuals in more affected areas shift their giving more to local causes than those in less affected areas.*

We implemented a donation experiment on Prolific with 4,211 participants whose area of residence was indicated to be in England.¹¹ We did not apply any other pre-screening criteria but excluded individuals with missing values for the following baseline variables as provided by Prolific: age, gender, socioeconomic status, household size, household income, and country of birth. (For more details, see Section C of the Online Appendix.)

The subjects received a fixed participation fee of £1.70¹² and an additional budget of £1 to be divided between their own account and a donation.¹³ We ran the experiment for 21 weeks, from June until August and from October until November 2020.¹⁴ On each occasion, there was one session per week, on Monday evenings.¹⁵

In the control group, participants received a donation ask for Save the Children. In the treatment group, participants received the same donation ask with an additional paragraph about COVID-19. The additional paragraph read: "The coronavirus is already having devastating consequences for children and their rights. Health systems, both in poor countries and the NHS, are being overwhelmed. Children have had their education disrupted by school closures. Many face the prospect of poverty. With the pandemic now spreading into some of the world's poorest countries and in the UK, there is a real danger that we will see a reversal of the gains made over the last 20 years. There is an alternative."¹⁶ In the first step, participants were asked to divide the additional budget of £1 between their own account and a donation to Save the Children by using a slider¹⁷ (see Figure A1 and A2 in the Appendix for the exact implementation). In the second step, we asked participants to

¹¹We concentrated on participants living in England and excluded participants living in Scotland, Wales and Northern Ireland because COVID-19 cases were only reported for larger geographical units in those latter territories.

¹²We calibrated the fixed payment according to the time needed for the experiment and survey such that, on average, participants received at least the minimum wage. In fact, the average payment amounted to a rate of £10.27 per hour (not accounting for what they chose to keep from the additional budget of £1).

¹³In a pilot, we tested the need for matching incentives for internal validity. We opted against using those for the following reasons: (i) We did not find significant differences in out-of-pocket giving between matching and no matching; (ii) Individuals gave at high levels without matching; (iii) Transaction costs of keeping £1 and giving after the experiment are larger than in the experiment; (iv) Both conditions do not receive matching; (v) The majority of recent experimental papers on charitable giving in Experimental Economics did not use matching incentives.

¹⁴The numbers of COVID-19 cases were low in the summer; we therefore paused data collection until numbers started rising again, in line with the preregistered protocol.

¹⁵The exception here is the first session, which was conducted on both Monday and Tuesday evenings.

¹⁶The text of the appeal and the extra paragraph were based on the information provided on the website of Save the Children UK, with some adaptations necessary for the purpose of the experiment.

¹⁷Participants could donate any portion of the endowment. The amounts were rounded to a penny (£0.01).

divide their chosen donation amount between a project aiming to help children in the UK versus one aiming to help children in developing countries. Again, participants indicated their decision by using a slider. All donation decisions were implemented ex post. For non-donors, we modified the division question. These non-donors were informed that the researchers would donate an additional £100 to Save the Children UK after the end of the study and were asked to indicate how they wished to divide this donation between Save the Children’s UK program and the global program. The donation division of the additional £100 was implemented according to the average decision made by all non-donors.

After making the two donation decisions, participants were asked to fill in a short survey. In the subsequent analysis, we excluded participants with three or more inconsistent or illogical responses following a preregistered protocol (see Section B of the Online Appendix). This resulted in the exclusion of around 16% of the initial sample in the following analysis. For the exact formulation of the experimental protocol and the questions, see Online Appendix, Section F. The hypotheses and analysis were preregistered at OSF (<https://osf.io/h5syz/>) before data collection began.¹⁸

3 Analysis and results

3.1 Descriptive statistics

Table 1: Descriptive statistics for the outcome variables

	(1) Overall			(2) By treatment					
	Mean	Std. error	N	(a) Control			(b) COVID-19 reference		
	Mean	Std. error	N	Mean	Std. error	N	Mean	Std. error	N
Donation choice									
– overall amount (i)	0.595	0.007	3,548	0.571	0.010	1,799	0.620	0.010	1,749
– share of donors	0.767	0.007	3,548	0.749	0.010	1,799	0.786	0.010	1,749
– positive amount	0.776	0.005	2,721	0.763	0.008	1,347	0.789	0.007	1,374
Donation share to UK project									
– overall	0.552	0.005	3,548	0.553	0.008	1,799	0.550	0.008	1,749
– if donation positive (ii)	0.541	0.006	2,721	0.550	0.009	1,347	0.531	0.009	1,374
– if donation equal to zero	0.587	0.012	827	0.562	0.016	452	0.618	0.017	375

Note: (i) and (ii) mark the outcomes used in the (preregistered) hypotheses tests.

Table 1 shows summary statistics for the two decisions that participants made in the experiment. The first decision is shown in the upper panel and the second decision in the lower panel. The overall averages are

¹⁸We deviated from the protocol in the following ways: (i) We used the share of cases up to date instead of the absolute number up to date for the reasons explained in this section, but we tested robustness to other (absolute) measures, including a new analysis based on the article count. (ii) We added the specification with local fixed effects to replace local characteristics for H2 and H4. (iii) We added a number of further robustness checks, shown in the Appendix.

shown in part (1) of the table. Out of the additional budget of £1, participants donated, on average, 60 pence. Although the donation could be any amount between £0 and £1, many participants exhibited preferences for more focal numbers, especially 0, 1, and 0.5 but also 0.1, 0.2, and so on. The share of participants who donated positive amounts is 77%. They directed 55% of their donation to the UK project. Part (2) of Table 1 presents the averages by treatment condition. The average donation amount, the share of donors, and the average positive amount are higher in the treatment group. In the treatment condition, the share of donations directed to the UK project is lower for donors and higher for non-donors.

Figure A5 in the Appendix provides an example of how our measure of the relative local severity of the pandemic—the share of COVID-19 cases in a UTLA to date, relative to all cases in England—and donation amounts vary over time for the four local areas with the greatest number of individual observations in our data (Kent, Birmingham, Hertfordshire, and Lancashire). Note that the graphs are based on small sample sizes (between 92 and 125 observations), so we do not draw any direct conclusions from them. They are meant to give an idea of the data at hand. We see that while in the early weeks, Kent, Hertfordshire, and Essex were relatively more affected by the pandemic, in the later weeks, they had lower case shares than before and compared to other local areas. The opposite held for Birmingham. For Kent and Essex, the average donation seemed to follow the pattern of the pandemic’s severity, while for the remaining local areas, patterns were more diffuse. In the following subsections, we proceed with the tests of our hypotheses.

3.2 Treatment effect on donation levels

For H1 regarding the effect of the treatment condition on donation choices, we ran a regression of the following form:

$$d_{i,t} = \alpha + \beta_1 T_i + \beta_2 X_i + \theta_t + \epsilon_i \quad (1)$$

where d denotes a donation amount, the subscript i denotes an individual, T denotes the treatment condition, X denotes a vector of control variables, θ_t denotes time dummies, and ϵ_i is the error term. Table 2 shows the results. In all columns, we include baseline controls and time dummies. Baseline controls consist of the initial position of the slider,¹⁹ age, female dummy, socioeconomic status, household size, and dummy for being born in the UK, as provided by Prolific.

The second set of controls in Column (2) and (3) includes participants’ financial situations and their expectations for the future. For household income, we created a continuous variable based on the mid-values of income categories provided by Prolific and, wherever the participant chose “prefer not to say,” imputed mid-values

¹⁹As the slider had no natural position, the computer assigned the position for each participant at random. This might, of course, have affected the final donation decision (see Adena & Huck, 2017). We therefore included the initial position as a control variable.

of the income category gathered through our survey.²⁰ Further financial variables from our survey included dummies for making ends meet before and since the onset of the COVID-19 pandemic, dummies for how income has been affected by the COVID-19 pandemic, and dummies for how participants expected their income to be affected in the future.

The third set of controls in Column (3) relates to participants' health and includes answers to the questions regarding whether their health has been affected by the COVID-19 pandemic, whether they expected their health to be affected in the future, and whether they were a member of a risk group.

Table 2: H1: The COVID-19 reference increases donations.

Outcome variable: donation amount

	(1)	(2)	(3)
COVID-19 reference	0.052*** (0.013)	0.053*** (0.013)	0.050*** (0.013)
Baseline controls	Yes	Yes	Yes
Financial controls	No	Yes	Yes
Health controls	No	No	Yes
Time fixed effects	Yes	Yes	Yes
Observations	3541	3541	3541
R^2	0.050	0.059	0.067

Note: Robust errors. Baseline controls are slider initial position, age, dummy born in the UK, female dummy, socioeconomic status, and number of household members. Financial controls include monthly household income, making ends meet dummies (before the pandemic and since the pandemic), and income change dummies (since the pandemic and expected in the future). Health controls include health negatively affected by COVID-19 dummies, expected negative impact on health dummies, and vulnerability to COVID-19: high risk or moderate risk dummies. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

The results confirm hypothesis H1 in that the reference to COVID-19 in the charity appeal increased donations. The increase is around 5 pence, from an average of 57 pence in the control group; this represents an increase of around 8%. Since the donations are bound between zero and one, we additionally present the results from a two-limit Tobit specification in the Appendix, Table A2. The analysis suggests an average marginal effect of 15 pence, which corresponds to an increase in giving of as much as 20%.

In order to put these effects into perspective, we looked at the differences in giving by gender and age, and by the variables that reflect experiences with the pandemic as well as expectations for the future. In Table A3 in the Appendix, we present the average donations by those different variables. We observed that females give 12 pence more on average and that giving increases with age, with those over 65 giving 16 pence more than those aged 18–24. We also found a clear pattern in making ends meet before and since the COVID-19 pandemic, with those who report less difficulty in making ends meet giving more. For income changes, health changes, and expected changes in the future, however, we instead see an inverted, U-shaped pattern. Those whose health had been somewhat affected or who expected their health to be somewhat affected in the future and those whose income had stayed the same or who expected it to stay the same in the future gave the largest amounts compared with those who had had or expected positive or negative income changes or whose health had been

²⁰The reason for adopting this approach is that our survey questions about income asked about fewer categories. Any inconsistencies between the two measures were entered into the exclusion count.

or was expected to be strongly affected as well as those who had experienced or expected no effects on health. For example, the magnitudes of the differences in our treatment are similar to the difference between average giving of those who had experienced some difficulties in making ends meet versus those who had been able to make ends meet fairly easily before the COVID-19 pandemic.

In an additional survey experiment, we found no significant differences in how the charitable project was perceived after receiving different donation appeals.²¹ In the treatment condition, participants did not expect the money collected for the project to be spent sooner, and they did not consider the project to be more urgent, effective, or important. We found that the donation appeal with the reference to COVID-19 did not evoke more negative emotions in the participants but that it did evoke less positive emotions, though this difference is only significant at $p < 0.1$ and does not survive corrections for multiple hypothesis testing. In line with the priming nature of the COVID-19 treatment, some participants in the treatment condition mentioned COVID-19 relief as one of the goals of the project, while none did so in the control group. Participants did not report significantly higher pressure to donate to an appeal with a COVID-19 reference, and this was similar for a real-life situation and for the ask when participating in a study on Prolific. Therefore, we conclude that the effect of the treatment condition is due neither to perceived differences in the project nor due to an experimenter demand effect (Zizzo, 2010). The effect is rather due to the increased salience of the COVID-19 pandemic.

3.3 The effect of local pandemic severity on donation levels

Before we proceed with the actual analysis, we show that our measure of relative local severity is strongly correlated with subjective perceptions. In the survey, we asked, “In your opinion, is the COVID-19 pandemic more or less severe in [participant’s local area] than in other areas in England?” In response, participants could choose between “more severe,” “equally severe,” or “less severe.” In Table A4 in the Appendix, we regress those subjective perceptions on our measure of relative local severity. All columns include time fixed effects and location fixed effects. The results show that higher local severity makes people more likely to select “more severe” as an answer to the subjective question and less likely to select “less severe.” This confirms that the chosen variable measures what it is intended to measure while clearly remaining objective at the same time.

For H2 regarding the effect of local pandemic severity on donation levels, we ran a regression of the following form:

$$d_{i,j,t} = \alpha + \beta_1 P_{j,t} + \beta_2 X_{i,(j)} + (\delta_j) + \theta_t + \epsilon_i \quad (2)$$

where j denotes the area in which the individual lives, P denotes relative local pandemic severity, and δ_j are location fixed effects. While for H1 the controls serve to increase precision, here the choice of controls might be

²¹For detailed results, see Section E of the Online Appendix.

crucial for the size and sign of the β_1 coefficient due to correlations between those variables with both pandemic severity and donation values. In Table 3 across all columns, we include controls for the baseline individual characteristics and time fixed effects as specified in the previous subsection. In Column (2), we add financial and health controls, again as previously specified. In Column (3), we account for the economic aspects of the area (wages, working hours, job density, share of employees in different sectors of the economy), and aspects of the area that might influence COVID-19 health risks (number of hospitals, age structure, population density, average health status indicators).²² Column (4) exchanges area controls for location fixed effects.

Table 3: H2: Individuals in more affected places will give more (or less) than individuals in less affected places. Outcome variable: donation amount

	(1)	(2)	(3)	(4)
Relative local severity of the pandemic	0.023** (0.010)	0.021** (0.010)	0.054** (0.022)	0.110*** (0.037)
COVID-19 reference	0.053*** (0.013)	0.051*** (0.013)	0.050*** (0.014)	0.043*** (0.014)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	Yes	Yes
Health controls	No	Yes	Yes	Yes
Area controls	No	No	Yes	No
Location fixed effect	No	No	No	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	3525	3525	3423	3525
R^2	0.052	0.069	0.080	0.118

Note: Robust errors. All columns include the following baseline controls: slider initial position, age, dummy born in the UK, female dummy, socioeconomic status, number of household members, and session dummies (time fixed effects). Financial controls include monthly household income, making ends meet dummies (before the pandemic and since the pandemic), income change dummies (since the pandemic and expected in the future). Health controls include health negatively affected by COVID-19 dummies, expected negative impact on health dummies, and vulnerability to COVID-19: high risk or moderate risk dummies. Area controls include dummies for shares of different age groups; population density; dummies for shares of people with good, fair, and bad health; job density; mean annual pay for full-time workers; mean hourly pay for full-time workers; mean work hours for full-time workers; number of National Health Service hospitals per 100 inhabitants; and shares of employees in different sectors of the economy. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

The coefficient on relative local severity of the pandemic suggests that an additional 1% of cases results in an increase in donations by 2 pence (in the specifications with individual characteristics), 5 pence (with location characteristics), or 11 pence (with location fixed effects). Those stark differences in the estimated coefficients suggest that local characteristics are correlated with both local severity and donations. This is only partly corrected when accounting for a large number of observable location characteristics but is taken care of in Column (4) in which we included location fixed effects.

In the Appendix, we provide a number of robustness checks. First, we show that it is unlikely that we have missed any other important explanatory variable which could have biased our results. In Table A10, we show an exercise in which we gradually included different sets of control variables. In Columns (2)–(6), we control for location fixed effects, time fixed effects, and baseline characteristics of the individuals to account for compositional changes of the sample over time. The gradual inclusion of additional individual characteristics as well as a large set of variables reflecting experiences with COVID-19 does not lead to any meaningful change

²²The source of these data is official labor market statistics (www.nomisweb.co.uk).

in the coefficient of interest. In the spirit of Oster (2019) and Altonji et al. (2005), under the assumption that unobservables are correlated with observables, we conclude that the unobservables are unlikely to have biased our estimates. In Table A6, we additionally control for an interaction between time dummies and nine region dummies to account for potential region-specific trends that could have affected both local severity and individual economic situation or other aspects potentially correlated with giving. The coefficient on local severity is similar to that in our preferred specification in Table 3, Column (4).

Second, in Table A5, we show the results after applying a two-limit Tobit. The estimated average marginal effects are now in the range of 6–33 pence, depending on the specification.

Third, in Table A7, we include the interaction effect between relative local severity and the treatment. The interaction effect is not significant, meaning that the effect of relative local severity is not amplified (or diminished) by the additional attention shift created by our treatment.

Fourth, we also test the robustness of our local severity measure. In Table A8, we replace the relative measure with the absolute number of COVID-19 cases in the seven days prior to each session of the experiment (scaled by 1,000). In Table A9, we replace it with the same number but measured per 100 inhabitants. The results are in line with those presented in Table 3: Local pandemic severity increases giving in the experiment.

What is the channel from increased local severity to higher giving in our experiment? Table A11 shows the correlations between subjectively reported experiences with COVID-19 and expectations and giving in our experiment. Negative experiences and expectations correlate negatively with giving. However, in Column (4) of Table 3, we control for individual health and financial situation as well as for the characteristics of the local area. Therefore, we interpret our results as the pure effect of increased awareness about COVID-19, similar to what we found when including the COVID-19 reference in the treatment condition. In order to strengthen this interpretation, we collected additional data. We expected that the media should play an important role in influencing the awareness of the pandemic. Therefore, we searched through articles in national newspapers and on BBC Online for reports about local severity. We counted the number of articles per local area in the week prior to the experiment. We ran the same regressions as in Table 3 using the number of articles (scaled by 10) as an explanatory variable in place of the variable capturing local severity. We present the results in Table 4. Confirming our above conjecture, we found the effect of media coverage about the local COVID-19 severity on donations in the experiment to be positive and significant.

3.4 Treatment effect on donation destination

We tested H3 regarding the split of donations between the UK and the global program in the following regression:

$$ds_{UK,i,t} = \alpha + \beta_1 T_i + \beta_2 X_i + \theta_t + \epsilon_i \quad (3)$$

Table 4: Number of articles about outbreaks for a specific location and donations in the experiment.
Outcome variable: donation amount

	(1)	(2)	(3)	(4)
Articles	0.036** (0.014)	0.037** (0.014)	0.041*** (0.016)	0.045*** (0.017)
COVID-19 reference	0.053*** (0.013)	0.051*** (0.013)	0.049*** (0.014)	0.044*** (0.014)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	Yes	Yes
Health controls	No	Yes	Yes	Yes
Area controls	No	No	Yes	No
Location fixed effect	No	No	No	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	3525	3525	3423	3525
R^2	0.052	0.069	0.080	0.117

Note: See notes to Table 3. The variable Articles is scaled by 10 to ease the readability of the coefficient. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

where $ds_{UK,i}$ is the donation share devoted to Save the Children’s UK program conditional on the donation being positive. Table 5 shows the results. The control variables in Columns (1)–(3) include those specified for H1 with the difference regarding the initial position of the slider: Here, this applies to the second decision. In Table 5, we restrict the sample to participants who donated positive amounts. In Table A12 in the Appendix, we combine donor and non-donor division decisions.²³ Although we hypothesized that the treatment effect would be positive on the share of donations devoted to the UK program, we failed to reject the null hypothesis of no effect. There simply seems to be no effect of the COVID-19 reference on the preference for the national program.

In Column (4), we additionally include variables that are likely to be correlated with individual decisions regarding the preferred destination for donations. In the post-experiment survey, we asked participants to estimate gross domestic product (GDP) growth and growth of the poverty rate in 2020 for the UK and for developing countries. The results suggest that those who thought that the UK was better off in 2020 relative to developing countries in terms of GDP growth donated less to the UK program. Those who thought that the poverty rate in the UK was higher than that in developing countries donated more to the UK program. Finally, participants donated more to the UK program if they thought that the UK was being more affected or equally affected by the pandemic than developing countries.

3.5 The effect of local pandemic severity on donation destination

We estimate the effect of the severity of the pandemic on the donation share to the UK program by running the following regression:

$$ds_{UK,i,j,t} = \alpha + \beta_1 P_j + \beta_2 X_{j/i} + \delta_j + \theta_t + \epsilon_i \quad (4)$$

²³However, only the donors decided on the allocation of their own money. The non-donors decided jointly on the allocation of an additional £100 donation.

Table 5: H3: The national project will benefit more from the COVID-19 frame than the global project.
Outcome variable: donation share to the UK program

	(1)	(2)	(3)	(4)
COVID-19 reference	-0.017 (0.012)	-0.017 (0.012)	-0.015 (0.012)	-0.013 (0.012)
GDP in the UK vs. in developing countries				-0.003** (0.001)
Poverty in the UK vs. in developing countries				0.004*** (0.001)
UK more affected dummy				0.057*** (0.016)
UK equally affected dummy				0.059*** (0.016)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	No	Yes
Health controls	No	No	Yes	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	2715	2715	2715	2715
R^2	0.096	0.104	0.104	0.121

Note: Robust errors. All columns include the following baseline controls: slider initial position, age, dummy born in the UK, female dummy, socioeconomic status, number of household members, and session dummies (time fixed effects). Financial controls include monthly household income, making ends meet dummies (before the pandemic and since the pandemic), and income change dummies (since the pandemic and expected in the future). Health controls include health negatively affected by COVID-19 dummies, expected negative impact on health dummies, and vulnerability to COVID-19: high risk or moderate risk dummies. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table 6 shows the results structured as in Table 3 with the following exceptions: (i) The outcome variable is the share of donations to the UK program. (ii) The control variables include the initial position of the slider at the second decision. (iii) The sample is restricted to donors only. In Table A13 in the Appendix, we show the results when combining donor and non-donor division decisions. Although we hypothesized that the effect of relative local severity of the pandemic would be positive on the share of donations devoted to the UK program, we failed to reject the null hypothesis of no effect.

Table 6: H4: Individuals in more affected places will shift their giving to local causes more than those in less affected places.

Outcome variable: donation share to the UK program

	(1)	(2)	(3)	(4)
Relative local severity of the pandemic	0.002 (0.009)	0.002 (0.009)	0.008 (0.019)	-0.024 (0.030)
COVID-19 reference	-0.017 (0.012)	-0.016 (0.012)	-0.014 (0.012)	-0.009 (0.012)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	Yes	Yes
Health controls	No	Yes	Yes	Yes
Area controls	No	No	Yes	No
Location fixed effect	No	No	No	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	2702	2702	2613	2702
R^2	0.095	0.110	0.136	0.174

Note: See note to Table 3. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

4 Conclusion

The pandemic has clearly affected many spheres of life. As documented in this paper, it has also affected pro-sociality. We found that participants in the experiment donated more money to a charity after receiving additional information on COVID-19, but we also documented similar positive effects of local pandemic severity and related media coverage in England. While we saw strong correlations between giving in our experiment and experiences with COVID-19, we were able to distill a pure effect of increased awareness and attention shift toward the pandemic on giving money to a charity in our experiment. Regarding experiences with COVID-19, we observed that individuals who indicated that their financial or economic situation had been negatively affected gave less. We also saw a drop in giving among those whose health had been negatively affected or who feared for their health in the future.

As we write this article, the pandemic is ongoing. Should negative economic and health consequences or fears become more pronounced or other factors change, they might outweigh the positive effect of pandemic awareness on pro-sociality as established in this paper. In the end, the results from any natural experiment have to be regarded as one snapshot in time: They are valid for the period and region under study. Nonetheless, we believe that the attention shift results are more likely to hold generally.

Further limitations of our study include the following: (i) It is difficult to assess general equilibrium effects in our experiment. We cannot say much about giving to other charities and other goals. However, based on our additional survey experiment, we found that participants in the treatment condition did not report higher urgency, effectiveness, or importance of giving to Save the Children than those in the control condition. (ii) Similar to other studies of this type, its external validity is limited. It is possible that participants increased their giving in the experiment when the costs of doing so were low but might not have changed their behavior in another context.

One of the potential directions that future research could take would be to investigate the role played by fears related to the pandemic for pro-sociality. Our data suggest substantially lower giving by those who fear negative health consequences or negative financial effects. Yet we cannot draw any causal conclusions in this respect. It seems especially challenging to come up with a potential study design that would provide causal evidence regarding pandemic-related fears, especially if researchers wish to maintain experimental standards in the field of economics.

Despite these open questions, we believe that our study makes a valuable contribution both to the field of COVID economics and to studies regarding behavior in extreme circumstances.

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Appendix

A Additional tables and figures

Figure A1: Control condition without COVID-19 reference

Please read the following information provided by the charity **Save the Children**

Save the Children - 100 Years Working With Children

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

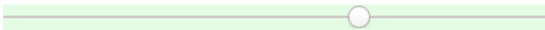
Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

Please donate to our work
Your support will help transform children's lives.

On top of the fixed payment of £1.70 you will receive an **additional budget of £1** that you can divide as you wish. You can keep it for yourself, donate to Save the Children, or divide it between the two.

- Whatever you decide to keep will be added to your payment.
- Whatever you decide to donate will be donated by us to Save the Children after the end of the study.

How much do you want to donate?

Keep for yourself £ 0.34		Your donation to Save the Children £ 0.66
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[Next](#)

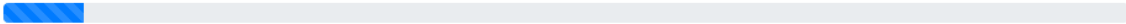


Figure A2: Treatment condition with COVID-19 reference

Please read the following information provided by the charity **Save the Children**

Save the Children - 100 Years Working With Children

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

The coronavirus is already having devastating consequences for children and their rights. Health systems, both in poor countries and the NHS, are being overwhelmed. Children have had their education disrupted by school closures. Many face the prospect of poverty.

With the pandemic now spreading into some of the world's poorest countries and in the UK, there is a real danger that we will see a reversal of the gains made over the last 20 years. There is an alternative.

Please donate to our work
Your support will help transform children's lives.

On top of the fixed payment of £1.70 you will receive an **additional budget of £1** that you can divide as you wish. You can keep it for yourself, donate to Save the Children, or divide it between the two.

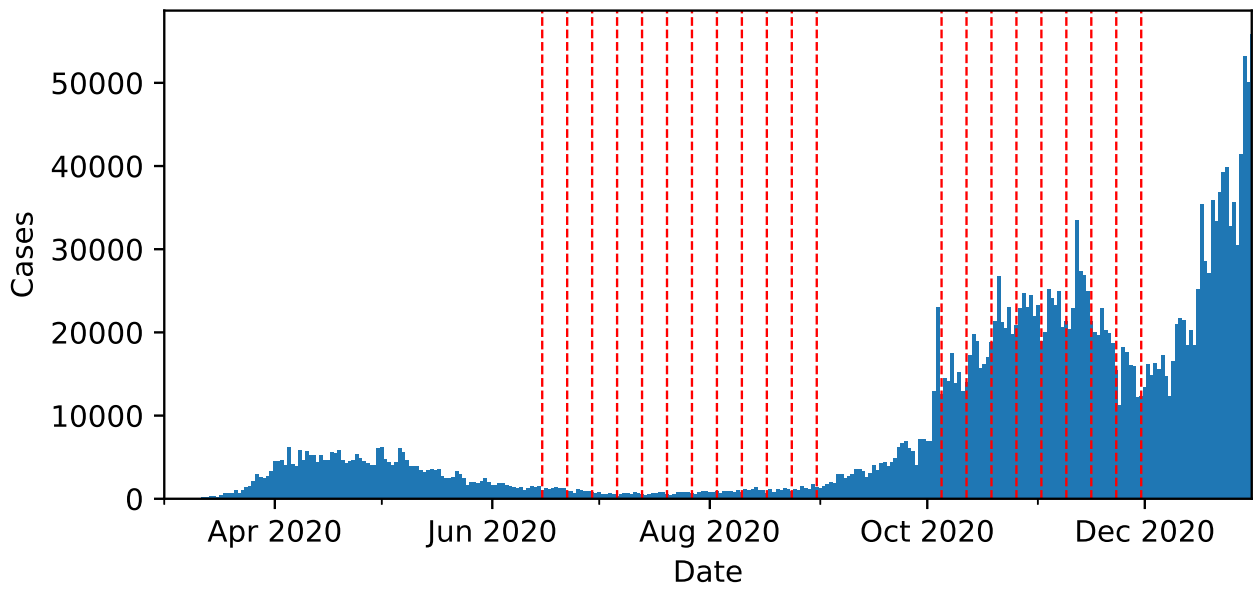
- Whatever you decide to keep will be added to your payment.
- Whatever you decide to donate will be donated by us to Save the Children after the end of the study.

How much do you want to donate?

<p>Keep for yourself</p> <hr/> <p>£ 0.36</p>		<p>Your donation to Save the Children</p> <hr/> <p>£ 0.64</p>
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Figure A3: Daily COVID-19 cases in England and dates of experimental sessions

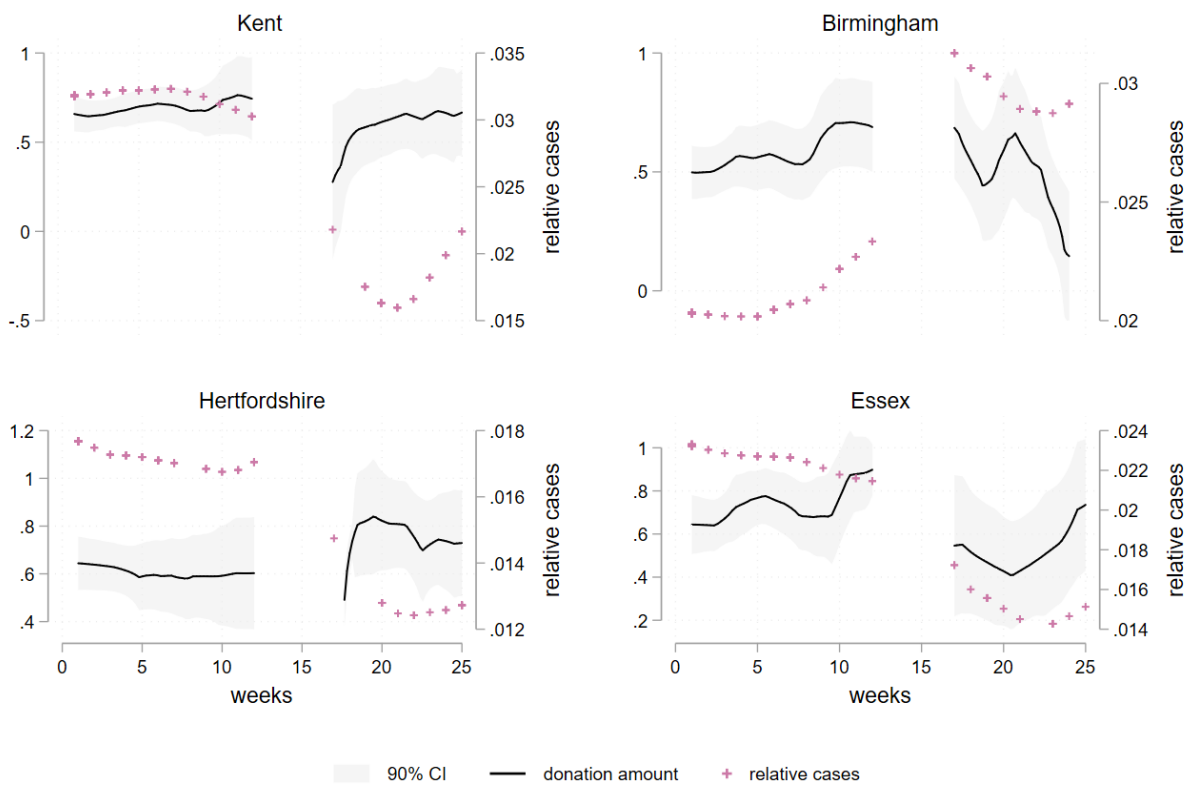


Notes: Data source coronavirus.data.gov.uk

Figure A4: Frequency of articles about the local areas related to COVID-19 in national newspapers and on BBC Online in the week preceding the experimental session



Figure A5: Examples for relative local severity and donation amounts



Notes: Local polynomial plot for donation amounts and 90% confidence intervals

Table A1: Descriptive statistics and balancing table

	(1) Overall			(2) By treatment						T-test <i>p</i> -value
	Mean	Std. error	N	(a) Control			(b) COVID-19 reference			
	Mean	Std. error	N	Mean	Std. error	N	Mean	Std. error	N	
Relative local severity	0.008	0.000	3532	0.008	0.000	1790	0.008	0.000	1742	0.745
Initial slider: donation	0.503	0.005	3548	0.503	0.007	1799	0.503	0.007	1749	0.950
Initial slider: share UK	0.506	0.005	3548	0.510	0.007	1799	0.501	0.007	1749	0.355
Age	33.7	0.211	3547	34.0	0.296	1799	33.4	0.300	1748	0.127
Born in UK dummy	0.828	0.006	3548	0.825	0.009	1799	0.831	0.009	1749	0.643
Female dummy	0.654	0.008	3548	0.657	0.011	1799	0.652	0.011	1749	0.743
Socioeconomic status	5.325	0.025	3542	5.352	0.036	1797	5.297	0.036	1745	0.279
Household members	3.062	0.023	3548	3.084	0.032	1799	3.038	0.032	1749	0.310
Household income	3576.2	47.0	3548	3586.4	65.7	1799	3565.8	67.2	1749	0.826

Table A2: H1: The COVID-19 reference increases donations. Marginal effects after a two-limit Tobit. Outcome variable: donation amount

	(1)	(2)	(3)
COVID-19 reference	0.152*** (0.038)	0.153*** (0.038)	0.148*** (0.038)
Baseline controls	Yes	Yes	Yes
Financial controls	No	Yes	Yes
Health controls	No	No	Yes
Time fixed effects	Yes	Yes	Yes
Observations	3541	3541	3541
Pseudo R^2	0.024	0.028	0.028

Note: See note to Table 2. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A3: Mean donations by category

	Mean	Std. error	N
<i>Gender:</i>			
– female	0.640	0.3927	2322
– male	0.511	0.4213	1226
<i>Age:</i>			
– 18-24	0.519	0.4007	988
– 25-34	0.595	0.4079	1175
– 35-49	0.644	0.4059	901
– 50-64	0.658	0.3993	412
– 65+	0.684	0.3952	71
<i>Making ends meet before COVID-19:</i>			
– great difficulty	0.547	0.4140	115
– some difficulty	0.548	0.4116	847
– fairly easily	0.601	0.4047	1596
– easily	0.631	0.4037	990
<i>Making ends meet since COVID-19:</i>			
– great difficulty	0.523	0.4215	206
– some difficulty	0.563	0.4112	1048
– fairly easily	0.603	0.4041	1465
– easily	0.641	0.3996	829
<i>Change in household income since COVID-19:</i>			
– decreased a lot	0.548	0.4221	349
– decreased somewhat	0.579	0.4078	1120
– stayed the same	0.619	0.4013	1798
– increased somewhat	0.573	0.4166	248
– increased a lot	0.498	0.4284	33
<i>Expected change in household income:</i>			
– decrease a lot	0.540	0.4185	206
– decrease somewhat	0.599	0.4048	854
– stay the same	0.612	0.4041	1861
– increase somewhat	0.554	0.4124	576
– increase a lot	0.606	0.4323	51
<i>Personal health or health of family negatively affected by COVID-19:</i>			
– a lot	0.541	0.4308	146
– somewhat	0.601	0.3991	1074
– not at all	0.596	0.4096	2328
<i>Expected negative impact on health:</i>			
– a lot	0.484	0.4234	140
– somewhat	0.620	0.3987	2140
– not at all	0.565	0.4162	1268
<i>Vulnerability to COVID-19:</i>			
– high risk	0.489	0.4227	101
– moderate risk	0.612	0.4001	687
– low risk	0.595	0.4082	2760

Table A4: The effect of the relative local severity of the pandemic on subjective perceptions of local severity. Outcome variable: subjective perceptions of local severity

	(1) More severe	(2) Equally severe	(3) Less severe
Relative local severity of the pandemic	0.292*** (0.039)	-0.002 (0.047)	-0.290*** (0.036)
Location fixed effect	Yes	Yes	Yes
Time fixed effects	Yes	Yes	Yes
Observations	3532	3532	3532
R^2	0.218	0.108	0.286

Note: Robust errors. All columns include time fixed effects and location fixed effects. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A5: H2: Individuals in more affected places will give more (or less) than individuals in less affected places. Marginal effects after a two-limit Tobit.

Outcome variable: donation amount

	(1)	(2)	(3)	(4)
Relative local severity of the pandemic	0.063** (0.030)	0.056* (0.029)	0.157** (0.065)	0.334*** (0.103)
COVID-19 reference	0.152*** (0.038)	0.149*** (0.038)	0.147*** (0.039)	0.124*** (0.038)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	Yes	Yes
Health controls	No	Yes	Yes	Yes
Area controls	No	No	Yes	No
Location fixed effect	No	No	No	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	3525	3525	3423	3525
Pseudo R^2	0.025	0.033	0.038	0.058

Note: See note to Table 3. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A6: Regional trends.

Outcome variable: donation amount

	(1)
Relative local severity of the pandemic	0.107** (0.052)
COVID-19 reference	0.043*** (0.014)
Baseline controls	Yes
Financial controls	Yes
Health controls	Yes
Location fixed effect	Yes
Time fixed effects	Yes
Time fixed effects x Region fixed effects	Yes
Observations	3525
R^2	0.161

Note: See note to Table 3. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A7: Interaction effect.

Outcome variable: donation amount

	(1)	(2)	(3)	(4)
Relative local severity of the pandemic	0.022 (0.015)	0.018 (0.015)	0.050** (0.025)	0.104*** (0.039)
COVID-19 reference	0.051** (0.022)	0.045** (0.022)	0.043* (0.023)	0.033 (0.023)
COVID-19 reference * local severity	0.002 (0.020)	0.007 (0.020)	0.007 (0.021)	0.013 (0.021)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	Yes	Yes
Health controls	No	Yes	Yes	Yes
Area controls	No	No	Yes	No
Location fixed effect	No	No	No	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	3525	3525	3423	3525
R^2	0.052	0.069	0.080	0.118

Note: See Note to Table 3. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A8: H2: Individuals in more affected places will give more (or less) than individuals in less affected places. Alternative specification of local severity: absolute number of COVID-19 cases in the last 7 days (in tsd.).

Outcome variable: donation amount

	(1)	(2)	(3)	(4)
COVID-19 cases, last 7 days, in tsd.	0.028** (0.013)	0.028** (0.014)	0.031** (0.015)	0.035** (0.016)
COVID-19 reference	0.053*** (0.013)	0.051*** (0.013)	0.049*** (0.014)	0.044*** (0.014)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	Yes	Yes
Health controls	No	Yes	Yes	Yes
Area controls	No	No	Yes	No
Location fixed effect	No	No	No	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	3525	3525	3423	3525
R^2	0.052	0.068	0.079	0.116

Note: See note to Table 3. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A9: H2: Individuals in more affected places will give more (or less) than individuals in less affected places. Alternative specification of local severity: number of COVID-19 cases in the last 7 days per 100,000.

Outcome variable: donation amount

	(1)	(2)	(3)	(4)
COVID-19 cases, last 7 days, per 100,000	0.176 (0.112)	0.188* (0.113)	0.294** (0.125)	0.362*** (0.132)
COVID-19 reference	0.053*** (0.013)	0.051*** (0.013)	0.049*** (0.014)	0.044*** (0.014)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	Yes	Yes
Health controls	No	Yes	Yes	Yes
Area controls	No	No	Yes	No
Location fixed effect	No	No	No	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	3525	3525	3423	3525
R^2	0.051	0.069	0.080	0.117

Note: See note to Table 3. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A10: The effect of observables on the coefficient of interest.
Outcome variable: donation amount

	(1)	(2)	(3)	(4)	(5)	(6)
Relative local severity of the pandemic	0.088** (0.037)	0.105*** (0.037)	0.108*** (0.037)	0.110*** (0.037)	0.109*** (0.037)	0.109*** (0.037)
Baseline controls	No	Yes	Yes	Yes	Yes	Yes
Financial controls	No	No	Yes	Yes	Yes	Yes
Health controls	No	No	No	Yes	Yes	Yes
Other socioeconomic controls	No	No	No	No	Yes	Yes
Work change controls	No	No	No	No	No	Yes
Location fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Time fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Observations	3532	3525	3525	3525	3525	3525
R^2	0.062	0.101	0.109	0.118	0.123	0.124

Note: Robust errors. All columns include time fixed effects, and location fixed effects. For baseline, financial, and health controls see note to Table 2. Other socioeconomic controls include place of living dummy (big city, small city, suburbs), employment status dummy (employed, unemployed, student, apprentice, retired), number of children in the household, and primarily source of news dummy (high quality, medium quality). Work change controls include work change since COVID-19 dummies (lost permanently, lost temporarily without pay, lost temporarily with pay, hours reduced), number of days commuting before COVID-19 and since COVID-19, and remote work dummies (fully, partly). * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A11: Correlation between economic and health variables and donation amount.
Outcome variable: donation amount

	(1)	(2)	(3)	(4)	(5)	(6)
Dummy income decreased since the outbreak of the pandemic	-0.030** (0.014)					
Dummy income expected to decrease in the next 12 months		-0.010 (0.015)				
Health negatively affected by COVID-19: a lot dummy			-0.046 (0.035)			
Expected negative impact on health: a lot dummy				-0.111*** (0.036)		
Vulnerability to COVID-19: high risk					-0.125*** (0.041)	
Vulnerability to COVID-19: moderate risk						-0.006 (0.017)
Baseline controls	Yes	Yes	Yes	Yes	Yes	Yes
Location fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Time fixed effects	Yes	Yes	Yes	Yes	Yes	Yes
Observations	3525	3525	3525	3525	3525	3525
R^2	0.100	0.099	0.100	0.102	0.102	0.099

Note: Robust errors. All columns include the following controls location fixed effects, slider initial position, age, dummy born in the UK, female dummy, socioeconomic status, number of household members, and session dummies (time fixed effects). * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A12: H3: The national project will benefit more from the COVID-19 frame than the global project.
Outcome variable: donation share to the UK program

	(1)	(2)	(3)	(4)
COVID-19 reference	-0.004 (0.010)	-0.003 (0.010)	-0.003 (0.010)	-0.001 (0.010)
GDP in UK vs. in developing countries				-0.002 (0.001)
Poverty in UK vs. in developing countries				0.004*** (0.001)
UK more affected dummy				0.049*** (0.015)
UK equally affected dummy				0.063*** (0.015)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	No	Yes
Health controls	No	No	Yes	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	3541	3541	3541	3541
R^2	0.095	0.103	0.101	0.117

Note: See note to Table 5. The sample consists of first-stage donors and non-donors. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A13: H4: Individuals in more affected places will shift their giving to local causes more than those in less affected places.

Outcome variable: donation share to the UK program

	(1)	(2)	(3)	(4)
Relative local severity of the pandemic	0.007 (0.008)	0.007 (0.008)	-0.008 (0.017)	-0.041 (0.027)
COVID-19 reference	-0.004 (0.010)	-0.003 (0.011)	-0.003 (0.011)	-0.002 (0.011)
Baseline controls	Yes	Yes	Yes	Yes
Financial controls	No	Yes	Yes	Yes
Health controls	No	Yes	Yes	Yes
Area controls	No	No	Yes	No
Location fixed effect	No	No	No	Yes
Time fixed effects	Yes	Yes	Yes	Yes
Observations	3525	3525	3423	3525
R^2	0.094	0.108	0.132	0.164

Note: See note to Table 6. The sample consists of first-stage donors and non-donors. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Online Appendix

COVID-19 and pro-sociality: How do donors respond to local pandemic severity, increased salience, and media coverage?

Maja Adena (WZB) and Julian Harke (WZB)

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A Timeline of the main experiment

After the development of the idea and programming of the experiment, we ran a technical pilot with six participants on June 5, 2020, followed by a first rough preregistration on June 8, 2020 (<https://osf.io/23sc4/>). This was followed by two pilots with 25 and 26 participants on the afternoons of June 8 and 10, 2020, to calibrate the payments. A final preregistration with a pre-analysis plan was completed on June 15, 2020 (<https://osf.io/h5syz/>). Following this, we ran several waves of the experiment on Monday evenings until the end of August 2020, starting with a larger initial sample and reducing the sample over time. Further sessions were run in October and November 2020 in order to capture the second wave of the pandemic.

B Exclusion criteria

We excluded participants who fulfilled three or more of the following criteria:

- Time taken for completing the experiment below 5 minutes or above 25 minutes,
- Estimated number of COVID-19 cases in UK below 30,000 or more than 30,000,000,
- Estimated number of cases in local area larger than the estimated number of cases in the UK/10.
- Number of household members (children plus adults) more than 8,
- Expectation that the poverty rate in the UK or in developing countries will decrease below 10%,
- Expectation that the GDP growth rate in the UK or in developing countries will increase above 10%,
- Inconsistencies between the answers reported to Prolific and answers in our survey:¹
 - Area of residence,
 - Household income,
 - Number of household members,
 - Employment status.

C Prolific pre-screening criteria

Our only pre-screening criterion was the current area of residence, which needed to be in England. However, in order to secure baseline sociodemographic information, we required that the following variables have no missing values: gender, age, country of birth, household size, household income (including “prefer not to say” category for sample size reasons), and socioeconomic status, see Table C1. We chose those variables for their relevance, but excluded other variables that would result in a large reduction of the available Prolific subject pool.

Table C1: Pre-screening variables

Pre-screening	Exclusion criteria	Available subject pool size (10.06.2020)
Current UK area of residence	not England	34,650
Age	missing values	34,307
Gender	missing values and “prefer not to say”	33,921
Socioeconomic Status	missing values	32,568
Household Size	missing values	32,407
Household Income (GBP)	missing values	31,968
Country of Birth	missing values	31,902

¹We did not treat those inconsistencies as direct exclusion criteria, because, for example, the inconsistencies between our survey and Prolific could have occurred due to differences in question formulation or changes to an individual’s situation between Prolific’s data collection and our survey.

D Additional analysis

In the preregistration, we specified a number of supporting hypotheses and tests on which we comment here. As pre-specified, we apply Bonferroni correction for multiple hypothesis testing, assuming 20 tests. In the following, barely any test is confirmed. Many of the tests concern, however, the outcome being the share of donations to the UK program and interactions with the treatment dummy for which the direct effect has been shown not to be significant in the main analysis. The score variables were created following a preregistered protocol.

- SH0 Interaction effects of the two main explanatory variables: The coefficient on the interaction between treatment dummy and local severity is not significant (and very small) (see Table A7 in the main article).
- SH1 COVID-19 skeptics will decrease giving in the treatment condition: The interaction term (as well as the direct coefficient on COVID-19 skeptics score) is not significant.
- SH2 Those who follow rules and recommendations regarding COVID-19 will increase their giving in the treatment condition: The interaction term (as well as the direct coefficient on rule followers score) is not significant.
- SH3a-c Regarding the impact of reporting in the media on giving to the local program versus the global program, there was not enough variation across sessions to test those hypotheses.
- SH4a-c The relative amount of giving to the UK program versus the global program will reflect the perception of how negatively the UK will be impacted relative to developing countries. In a regression analysis, the following explanatory variables are looked at: GDP growth in the UK versus developing countries, poverty in the UK versus in developing countries, dummy UK more affected by COVID-19 (subjective statement), and the interactions with the treatment. For the direct effects, see Table 5 and description in the main text. Regarding the interaction effects, only the coefficient on the interaction between the dummy UK more affected by COVID-19 and the treatment is positive and significant.
- SH5
 - a Individuals whose economic situations have been negatively affected since the spread of COVID-19 and those fearing such negative consequences will donate less than others: We confirm this hypothesis.
 - b Individuals whose health status has been negatively affected since the spread of COVID-19 and those fearing health deterioration will donate less than others. The coefficient on the health score is not significant (the reason is likely an inverted u-shaped pattern of giving in health, on which we comment in the main text and which seems to not be well reflected in the created health score variable).
 - c Individuals with less distancing opportunities will donate less than others. The coefficient on the distancing score is not significant.
- SH-Other Individuals might donate less in the treatment condition if they think that they have contributed sufficiently to prevention and mitigation of the consequences of COVID-19: Coefficient is not significant.
- SH-Other COVID-19 individual contribution and level of empathy: We confirm a positive correlation between empathy and giving in the experiment.

E Additional survey experiment

E.1 Design

We designed an additional survey experiment to better understand the mechanism behind the results of our main experiment, where we found higher giving in the treatment group compared to the control group. In addition, the survey aimed at informing us about a potential experimenter demand effect arising in the main experiment. Following the design of the original experiment, we recruited 220 participants on Prolific who indicated their area of residence to be in England. We used the same pre-screening (see Section C) and exclusion (see Section B) criteria as for the main experiment. The latter resulted in the final sample of 172 participants used in the analysis. The survey was not incentivized, and the participants received a fixed amount of £2 after the completion of the survey. Similar to the main experiment, in the control group, the participants read a donation ask for Save the Children. In the treatment group, the participants read the same donation ask with the additional paragraph about COVID-19. Next, on each page, participants were asked to “think of an average

Prolific participant from the UK who might receive this donation appeal” and answered a number of questions regarding how they think the donation appeal would affect such a person. The additional survey experiment was preregistered on OSF (<https://osf.io/rw86z/>) prior to the experimental sessions at the end of April, 2021. The preregistration contains further details of the survey experiment, the hypotheses, and screenshots of the experimental instructions.

E.2 Results

Next, we show the results of various tests of differences between treatments. First, we asked participants to answer how strongly they expected the appeal to evoke different emotions in the average Prolific participant. We asked the question separately for all 20 emotions that are part of the Geneva Emotional Wheel (GEW, see Scherer, 2005; Scherer et al., 2013). We took the average over the positive and over the negative emotions. Both variables range from 0 to 100. Table E1 shows results from OLS regressions. We see that the treatment evokes less positive emotions (marginally significant at $p < 0.1$)² and more negative emotions (not significant).

Table E1: AddH1a/b: The COVID-19 reference evokes more positive/negative emotions in the reader.

Outcome variable	Positive emotions	Negative emotions
COVID-19 reference	-5.586* (2.917)	3.177 (2.487)
Baseline controls	Yes	Yes
Observations	172	172
R^2	0.053	0.029

Note: OLS regressions; robust errors. Baseline controls include age, UK birth dummy, female dummy, socioeconomic status dummies, and household size. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Next, we tested, whether participants expect the money to be spent sooner in the treatment condition. Table E2 presents the results which show no significant differences in the expected timing of relief in both treatments.

Table E2: AddH2: Participants expect their donation to be spent sooner in the treatment with COVID-19 reference.

Outcome variable	Time money spent
COVID-19 reference	-0.146 (0.111)
Baseline controls	Yes
Observations	172
R^2	0.055

Note: See note to Table E1. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

We asked participants to name the goals that they expected the donations collected in the appeal to be spent on. They entered text into an open text field. We opted against providing a multiple-choice list as this could have influenced their responses. We classified the words used in the responses into major categories including COVID-19 (participants having included words such as pandemic, corona, or coronavirus). While in the control treatment, no one mentioned COVID-19, 16% in the treatment condition did so, and the difference is statistically significant, as can be seen in Table E3. However, this compares to, altogether, 51% mentioning education, 38% protection, 29% health, 22% support, 16% poverty, and 13% hunger.³ This means that COVID-19 relief was not perceived as the main goal of the project. On the other hand, mentions of COVID-19 confirm that the treatment condition made the pandemic more salient.

Next, we asked participants to compare the perceived importance, effectiveness, and urgency of the donation to Save the Children’s appeal with a donation to (i) Transparency International, (ii) the World Wildlife Fund, and (iii) the Alzheimer’s Society. The participants answered by using a slider on a scale from less important/effective/urgent to more important/effective/urgent. For each participant, we computed an average over

²In the text and in the tables, we do not correct for multiple hypothesis testing. However, Bonferroni corrections are easily implemented if we multiply the p-value by the number of tests (9). The difference in positive emotions does not survive such comparisons, and the only test that survives is AddH3.

³This sums to more than 100% since participants were allowed to name multiple goals.

Table E3: AddH3: Participants expect the money to be (more often) spent on COVID-19 relief in the treatment with COVID-19 reference.

Outcome variable	COVID-19 relief
COVID-19 reference	0.158*** (0.038)
Baseline controls	Yes
Observations	172
R^2	0.110

Note: See note to Table E1. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

the three charities and used this score for the final comparisons. The score ranges from 0 to 100. The results are presented in Table E4. There are no significant differences in how important, effective, or urgent participants perceive giving to Save the Children in the treatment versus the control condition.

Table E4: AddH4-6: In the treatment with COVID-19 reference, giving to the appeal is perceived to be more effective/important/urgent.

Outcome variable	Relative effectiveness	Relative importance	Relative urgency
COVID-19 reference	-0.032 (2.003)	0.699 (1.875)	1.671 (2.011)
Baseline controls	Yes	Yes	Yes
Observations	172	172	172
R^2	0.012	0.019	0.024

Note: See note to Table E1. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Next, we studied whether the treatment condition might exert on participants more pressure to give. In the literature, it has been long recognized that more (social) pressure results in higher giving (see, among others, Andreoni et al., 2017; DellaVigna et al., 2012). Moreover, anecdotal evidence suggests that fundraisers actively use such techniques. We asked a randomly chosen 50% of our sample (equally distributed among the treatments) to judge the following statement: “The person would feel pressure to donate when receiving such a donation request in a letter by the Royal Mail.” Participants answered by using a slider on a scale from “not at all” to “a lot,” coded 0–100. The results in Table E5 show that the difference is not significant.

Table E5: H7: The COVID-19 reference results in more pressure to donate.

Outcome variable	Pressure to donate
COVID-19 reference	1.349 (5.822)
Baseline controls	Yes
Observations	81
R^2	0.057

Note: See note to Table E1. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

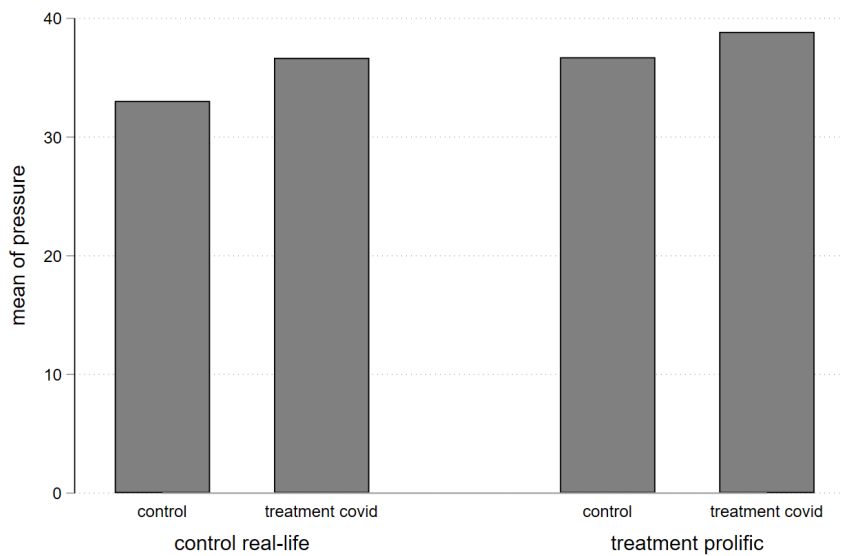
Next, we checked for a potential unintended experimenter demand effect in our main experiment. We asked the remaining 50% of the sample the following question: “The person would feel pressure to donate when receiving such a donation request in a study on Prolific.” The participants answer using a slider on a scale from “not at all” to “a lot.” Using a difference-in-difference approach, we study whether the additional pressure in the treatment condition in our experiment is different from that which the participants believe to experience in real life. Table E6 shows coefficients on treatment, dummy for the group that judged the pressure to give on Prolific (versus real life), and the interaction between the two. The coefficient on the interaction term is not significant, meaning that the pressure in the treatment condition is not different from that which would arise in real life (level coefficients are also not significant). In Figure E1, we present the averages in perceived pressure by treatments.

Table E6: H8: The participants in our initial experiment on Prolific feel higher pressure to donate in the treatment with COVID-19 reference than one would expect to arise in real life.

Outcome variable	Pressure to donate
COVID-19 reference x Prolific	-3.062 (7.727)
COVID-19 reference	5.129 (5.337)
Prolific	4.368 (5.244)
Baseline controls	Yes
Observations	172
R^2	0.037

Note: See note to Table E1. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Figure E1: Perceived pressure to donate in the experiment and in real life, by treatment condition



Note: Own data.

F Screenshots from the main experiment

Figure F2: Introduction

Introduction

Thank you for signing up. This study consists of two parts. In the first part, we ask you to make two decisions. In the second part, you are supposed to answer some survey questions.

This research is very important to us. We therefore ask you to pay attention and try to answer as precise as you can. Thank you!

Payment
If you complete both parts of the study, you will be paid at least £1.70.

The maximum time allowed to complete this study is 49 minutes. You will not be entitled to any payment if you exceed the maximum time allowed.

Data protection information Hide

The Berlin Social Science Center (Wissenschaftszentrum Berlin für Sozialforschung, WZB), Reichpietschufer 50, 10785 Berlin, Germany is conducting a scientific study using Prolific today.

Your responses will be recorded on our server. The data generated in the study will be separated from the data in the Prolific system after the payment has been completed and will not allow any inference on the participation respectively the responses of individual persons. Correspondingly, the analysis and presentation of all results of this survey will be anonymized. The anonymous research data will be archived and will possibly be made available to other scientists for further use.

Participation in today's study is entirely voluntary. You have the possibility to exit the study at any time.

Next

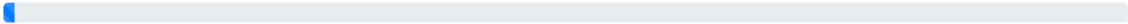


Figure F3: Control condition without COVID-19 reference

Please read the following information provided by the charity **Save the Children**

Save the Children - 100 Years Working With Children

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

Please donate to our work

Your support will help transform children's lives.

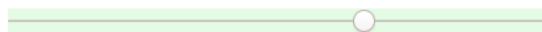
On top of the fixed payment of £1.70 you will receive an **additional budget of £1** that you can divide as you wish. You can keep it for yourself, donate to Save the Children, or divide it between the two.

- Whatever you decide to keep will be added to your payment.
- Whatever you decide to donate will be donated by us to Save the Children after the end of the study.

How much do you want to donate?

Keep for yourself

£ 0.34



Your donation to Save the Children

£ 0.66

Next

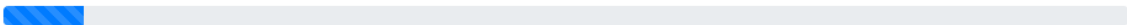


Figure F4: Treatment condition with COVID-19 reference

Please read the following information provided by the charity **Save the Children**

Save the Children - 100 Years Working With Children

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

The coronavirus is already having devastating consequences for children and their rights. Health systems, both in poor countries and the NHS, are being overwhelmed. Children have had their education disrupted by school closures. Many face the prospect of poverty.

With the pandemic now spreading into some of the world's poorest countries and in the UK, there is a real danger that we will see a reversal of the gains made over the last 20 years. There is an alternative.

Please donate to our work

Your support will help transform children's lives.

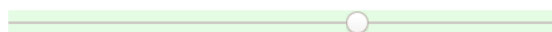
On top of the fixed payment of £1.70 you will receive an **additional budget of £1** that you can divide as you wish. You can keep it for yourself, donate to Save the Children, or divide it between the two.

- Whatever you decide to keep will be added to your payment.
- Whatever you decide to donate will be donated by us to Save the Children after the end of the study.

How much do you want to donate?

Keep for yourself

£ 0.36



Your donation to Save the Children

£ 0.64

Next

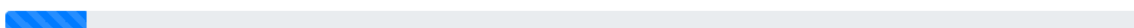


Figure F5: Second decision for donors

What should the donation be used for?

Your donation is **£0.66**.

How much of your donation do you want to allocate to either cause?

Save the Children's work around the UK

UK

£ 0.34

Save the Children's work around the world

World

£ 0.32

Next

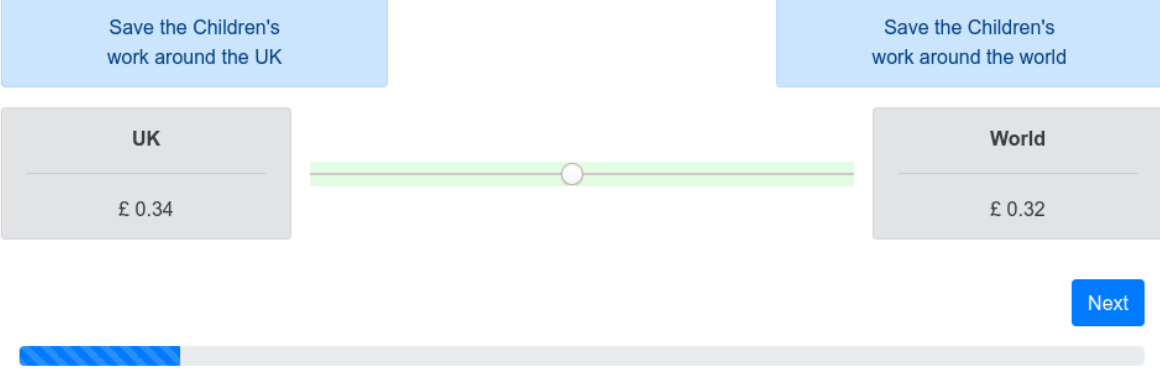


Figure F6: Second decision for non-donors

What should the donation be used for?

In addition to the £1 budget that we offered on the previous screen, we are going to donate **£100** to Save the Children.

We'd like you to help us decide how to divide this donation between Save the Children's work around the UK and around the world. Once the study is finished, we will divide the money between the two programmes by averaging the decisions made by participants like you and donate to Save the Children.

How much of this additional donation do you want to allocate to either cause?

Save the Children's work around the UK

UK

£ 29.00

Save the Children's work around the world

World

£ 71.00

Next

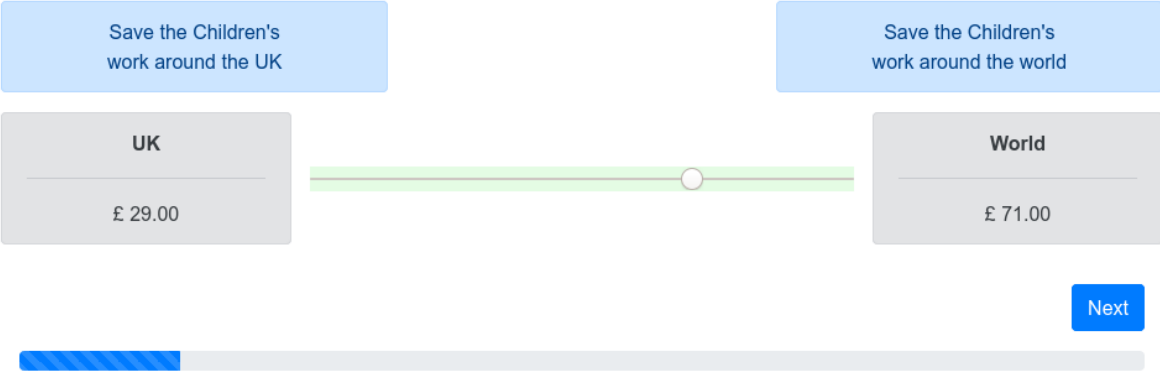


Figure F7: Introduction to survey

Survey

In the second part, we ask you to answer some survey questions. The topics of the survey are your experience with and opinions regarding COVID-19* as well as your personal situation.

Your participation and your sincere answers are very important for our research.

Your answers will be used for research purposes only. The analysis and presentation of all results will not allow any inference on your individual person. In case you feel uncomfortable with any of the questions, you can exit the survey at any point. However, if you do not finish the survey, you will only be payed based on your decision in the first part of the study.

* COVID-19 is the disease caused by SARS-CoV-2, also known as the novel coronavirus.

Next

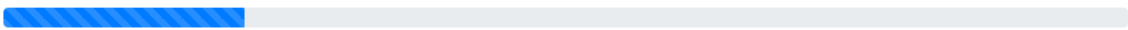


Figure F8: Demographics

Now we would like to ask you some questions

How many adults, including yourself, live in your household?

How many children live in your household?

Where do you live?

- In a city with over 100,000 inhabitants
- In a city with up to 100,000 inhabitants
- In the commuter belt around a city
- In a rural area

What is your primary employment status?

- Employed or self-employed
- Unemployed but actively looking for work
- Student
- Apprentice
- Retired
- Not in the workforce

Next

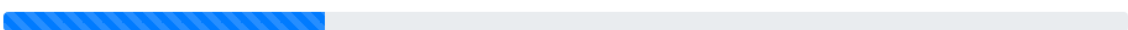


Figure F9: Location selection

In which area do you live?

Select your area from the list that will be shown after you start typing one of the following options:

- First part of your postcode.
- Name of your area, county or council.

- Derbyshire**
- Derby**
- Stockport (Greater Manchester)
- Rotherham (South Yorkshire)
- Cheshire East
- Derby
- Tameside (Greater Manchester)
- Sheffield (South Yorkshire)

If you cannot find your area from the input field above, please [click here](#).

Next

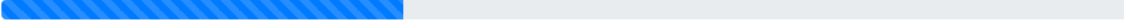


Figure F10: Location confirmation

In which area do you live?

Select your area from the list that will be shown after you start typing one of the following options:

- First part of your postcode.
- Name of your area, county or council.

The area you selected is:
Derbyshire

If you cannot find your area from the input field above, please [click here](#).

Next

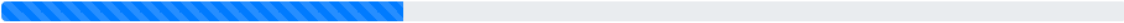


Figure F11: Experiences with COVID-19

Experiences with COVID-19

How many **confirmed COVID-19 cases** are there in **Derbyshire** to date? Please enter your guess:

[Your guess: 5,000 confirmed cases in Derbyshire.](#)

In your opinion, is the COVID-19 pandemic more or less severe in Derbyshire than in other areas in England?

More severe

Equally severe

Less severe

How many **confirmed COVID-19 cases** are there in the **UK** to date? Please enter your guess:

[Your guess: 300,000 confirmed cases in the UK.](#)

In your opinion, is the COVID-19 pandemic more or less severe in the UK than in developing countries?

More severe

Equally severe

Less severe

[Next](#)

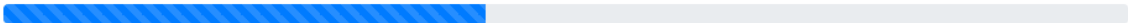


Figure F12: Health situation

Your health situation since the outbreak of COVID-19

Has your health or the health of your family members been negatively affected by the COVID-19 pandemic?

- A lot
 Somewhat
 Not at all

In the next 12 months, do you expect that your health or the health of your family members will be negatively affected by the Corona virus?

- A lot
 Somewhat
 Not at all

Some people are at risk of becoming seriously ill if infected by COVID-19. What risk category do you belong to?

- High risk (clinically extremely vulnerable)*
 Moderate risk (clinically vulnerable)**
 Neither of the above

NHS provides following information:

- * People at **high risk** (clinically extremely vulnerable) from coronavirus include people who:
- have had an organ transplant
 - are having chemotherapy or antibody treatment for cancer, including immunotherapy
 - are having an intense course of radiotherapy (radical radiotherapy) for lung cancer
 - are having targeted cancer treatments that can affect the immune system (such as protein kinase inhibitors or PARP inhibitors)
 - have blood or bone marrow cancer (such as leukaemia, lymphoma or myeloma)
 - have had a bone marrow or stem cell transplant in the past 6 months, or are still taking immunosuppressant medicine
 - have been told by a doctor they you have a severe lung condition (such as cystic fibrosis, severe asthma or severe COPD)
 - have a condition that means they have a very high risk of getting infections (such as SCID or sickle cell)
 - are taking medicine that makes them much more likely to get infections (such as high doses of steroids)
 - have a serious heart condition and are pregnant

- ** People at **moderate risk** (clinically vulnerable) from coronavirus include people who:
- are 70 or older
 - are pregnant
 - have a lung condition that's not severe (such as asthma, COPD, emphysema or bronchitis)
 - have heart disease (such as heart failure)
 - have diabetes
 - have chronic kidney disease
 - have liver disease (such as hepatitis)
 - have a condition affecting the brain or nerves (such as Parkinson's disease, motor neurone disease, multiple sclerosis or cerebral palsy)
 - have a condition that means they have a high risk of getting infections
 - are taking medicine that can affect the immune system (such as low doses of steroids)
 - are very obese (a BMI of 40 or above)

Next

Figure F13: Behavior since the outbreak of COVID-19

Behaviour since the outbreak of COVID-19

I have reduced the number of contacts with people outside my household:

A lot

Somewhat

Not at all

I have increased my stock of basic necessities, medication, or sanitary products:

A lot

Somewhat

Not at all

I wear a mask when I leave the house:

Always

Sometimes

Never

For which of the following activities did you leave your house in the last 4 weeks (multiple answers possible)?

Work

Religious services

Restaurant or café

Basic grocery shopping

Other shopping

Walk a dog

Physical activity or leisure outdoors alone or with members of own household

Physical activity or leisure outdoors with members of other households

Doctor or pharmacy

Meet friends or relatives

Help neighbours or family in need

Social gatherings or demonstrations

Do you follow the guidance and advice of the UK government on the COVID-19 pandemic?

Always

Very Often

Sometimes

Rarely

Never

To what extent do you agree with the following statement? I have done my bit to prevent and tackle COVID-19.

Agree totally

Agree partly

Neither agree nor disagree

Disagree partly

Disagree totally

Please specify what have you done to prevent and tackle COVID-19:

I have avoided anyone outside my household as much as possible, have only contacted through phone and video chat. Have

[Next](#)




Figure F14: Work situation

Your work situation

Were you working **before** the COVID-19 pandemic?

Yes, full time
 Yes, part time
 No

Have you experienced any of the following **since** the outbreak of the COVID-19 pandemic?

Permanently layed off
 Temporarily layed off (with pay)
 Temporarily layed off (without pay)
 Reduced number of working hours
 Increased number of working hours
 Start of a new job
 None of the above

If your experiences are not described well enough by one of the options above, please [click here](#).

How many days a week did you commute **before** the outbreak of COVID-19?

5

What mode of transport did you use **before** the outbreak of COVID-19?

Public transport
 Private transport

How long was your daily commuting time **before** the outbreak of COVID-19?

Less than 1 hour
 Less than 2 hours
 More than 2 hours

How many days did you commute **last week**?

2

What mode of transport did you mainly use **last week**?

Public transport
 Private transport

How long was your daily commuting time **last week**?

Less than 1 hour
 Less than 2 hours
 More than 2 hours

In your daily life, is it easy to maintain a distance of at least 2 meters to people from outside your household?

Always
 Mostly
 Rarely
 Never

Do you work remotely or do you have this option?

Yes, I work (or can work) fully remotely
 Yes, but this option is only sometimes available
 No, I do not have the option of remote working
 Not applicable

Next




Figure F15: Financial situation

Your financial situation

Think of the last 12 months before the COVID-19 pandemic

Your total monthly household income from all sources before tax was:

- Up to £2000
- More than £2000 up to £5000
- More than £5000 up to £10000
- More than £10000

Your household was able to make ends meet:

- With great difficulty
- With some difficulty
- Fairly easily
- Easily

Has your economic situation been affected by COVID-19 pandemic?

Relative to the time **before** the COVID-19 pandemic, your household income has:

- Decreased a lot
- Decreased somewhat
- Stayed the same
- Increased somewhat
- Increased a lot

Your household is able to make ends meet:

- With great difficulty
- With some difficulty
- Fairly easily
- Easily

In the next 12 months, do you expect that your economic situation will change?

Relative to the time **before** the COVID-19 pandemic, do you expect your household income will:

- Decrease a lot
- Decrease somewhat
- Stay the same
- Increase somewhat
- Increase a lot

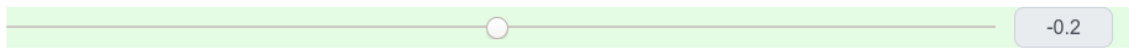
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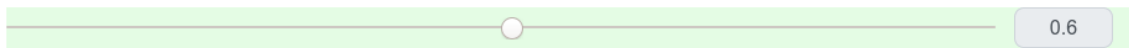
Figure F16: Economic situation

Economic situation in 2020

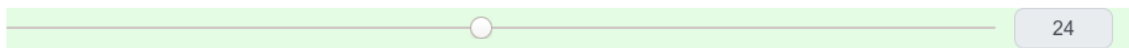
In 2019, UK GDP grew by 1.4%. What is your estimate of the GDP growth in the UK in 2020?



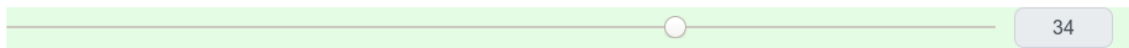
In 2019, IMF found the GDP growth in the developing economies was 3.7%. What is your estimate of the GDP growth in the developing economies in 2020?



In 2019, 22% of the UK population were living in poverty.* What is your estimate for the poverty rate in the UK in 2020?



In 2019, 23% of people in the developing countries were multidimensionally poor.** What is your estimate for the multidimensional poverty rate in the developing countries in 2020?



* The Social Metrics Commission's measure considers "poverty now": the extent to which the material resources that someone has available to them now meet the needs that they currently have.

** United Nations Development Programme and Oxford Poverty and Human Development Initiative considers a national Multidimensional Poverty Index which is a country-specific poverty measure tailored to each country's unique situation. Such measures generally take the dimensions of health, education and living standards as their starting point, and supplement with different dimensions measured by locally appropriate indicators.

Next



Figure F17: Main news sources

Your main news sources

Which of the following have been your **main news sources** in the last 4 weeks?

- The BBC tv station, Channel 4, ITV, Channel 5
- The BBC radio
- Other tv stations
- Other radio stations
- Print or online versions of The Guardian, The Observer, The Economist, i newspaper, Financial Times, or BBC online
- Print or online versions of other newspapers and magazines
- Government and official news sources
- Other online news
- Search engines and other websites
- Magazines
- Friends and family
- Social media

[Next](#)


A horizontal progress bar at the bottom of the form. The first 80% of the bar is filled with a blue and white diagonal striped pattern, while the remaining 20% is a solid light grey.

Figure F18: COVID-19 risks and policies

COVID-19 risks and policies to counteract the pandemic

What do you think about the risks from COVID-19?

- Most people have no symptoms or only few flu-like symptoms; otherwise COVID-19 isn't very dangerous.
- Only people with several pre-existing conditions die after getting COVID-19 and any of those conditions could have been the reason for their death.
- Older members of the population and risk groups can become seriously ill after infection with COVID-19.
- Anyone can become seriously ill after infection with COVID-19.
- Many people infected with COVID-19 become seriously ill.
- Most people infected with COVID-19 become seriously ill.

What do you think about the lockdown to contain the spread of COVID-19?

- There shouldn't have been any lockdown; it is not clear whether it helps at all.
- The lockdown is damaging to the economy and the health benefits of the lockdown do not outweigh the economic risks.
- The lockdown is harming the economy the health benefits of the lockdown might not outweigh the economic risks.
- The lockdown is necessary to contain the spread of COVID-19.
- No measure is too costly to contain the spread of COVID-19.

The policies against the spread of COVID-19 taken by the UK government are overall:

- Much too lax
- Somewhat too lax
- Just right
- Somewhat too harsh
- Much too harsh

With which statement do you agree more?

- The Coronavirus is man-made.
- The Coronavirus is natural in origin.

With which statement do you agree more?

- The Coronavirus was spread on purpose.
- The Coronavirus was spread unintentionally.

When do you think the COVID-19 pandemic will be overcome in the UK?

In months

When do you think that a vaccination against COVID-19 will be widely available in UK?

In months

When available, will you be willing to get vaccinated against COVID-19?

- Definitely not
- Probably not
- Not sure
- Rather yes
- Definitely yes

[Next](#)




Figure F19: Empathy

Your thoughts and feelings

I often have tender, concerned feelings for people less fortunate than me.

Does not describe me very well Describes me well

Sometimes I **don't** feel very sorry for other people when they are having problems.

Does not describe me very well Describes me well

When I see someone being taken advantage of, I feel kind of protective towards them.

Does not describe me very well Describes me well

Other people's misfortunes **do not** usually disturb me a great deal.

Does not describe me very well Describes me well

When I see someone being treated unfairly, I sometimes **don't** feel very much pity for them.

Does not describe me very well Describes me well

I am often quite touched by things that I see happen.

Does not describe me very well Describes me well

I would describe myself as a pretty soft-hearted person.

Does not describe me very well Describes me well

[Next](#)

Figure F20: Payment info - Donors

Thank you for participation in this study!

Payment

For your participation in this study you will receive £1.70 on your Prolific account **ExampleProlificID**. Based on your decisions you will receive the additional £0.34 in a form of a bonus after the end of the study. The latter might take some time, so we ask you to be patient.

Donation

Based on your decisions we will transfer following amounts:

- £0.34 to Save the Children's work around the UK.
- £0.32 to Save the Children's work around the world.

Comments

Do you have any comments about this survey:

Contact

For further questions please contact us under donationstudy@wzb.eu

If you send us an email or a message on Prolific we are happy to share the donation receipt for the sum of donations after the end of our study.

[Next](#)

Figure F21: Payment info - Non-donors

Thank you for participation in this study!

Payment

For your participation in this study you will receive £1.70 on your Prolific account **ExampleProlificID2**. Based on your decisions you will receive the additional £1.00 in a form of a bonus after the end of the study. The latter might take some time, so we ask you to be patient.

Donation

We will take into account your decisions when transferring the donation:

- 29% to Save the Children's work around the UK.
- 71% to Save the Children's work around the world.

Comments

Do you have any comments about this survey:

Contact

For further questions please contact us under donationstudy@wzb.eu

If you send us an email or a message on Prolific we are happy to share the donation receipt for the sum of donations after the end of our study.

[Next](#)

G Screenshots from the additional survey experiment

Figure G22: Introduction

Introduction

Thank you for signing up. This research is very important to us. We therefore ask you to pay attention and try to answer as precise as you can.

If you complete the study, you will be paid £2.00.

The maximum time allowed to complete this study is 52 minutes. You will not be entitled to any payment if you exceed the maximum time allowed.

Data protection information Hide

The Berlin Social Science Center (Wissenschaftszentrum Berlin für Sozialforschung, WZB), Reichpietschufer 50, 10785 Berlin, Germany is conducting a scientific study using Prolific today.

Your responses will be recorded on our server. The data generated in the study will be separated from the data in the Prolific system after the payment has been completed and will not allow any inference on the participation respectively the responses of individual persons. Correspondingly, the analysis and presentation of all results of this survey will be anonymized. The anonymous research data will be archived and will possibly be made available to other scientists for further use.

Participation in today's study is entirely voluntary. You have the possibility to exit the study at any time.

Next

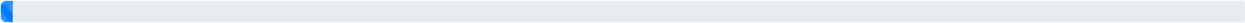


Figure G23: Control condition without COVID-19 frame

Please read the following information provided by the charity **Save the Children**

On the following pages we will ask you some questions pertaining to the text below. Wherever relevant, the information will be displayed again.

Save the Children - 100 Years Working With Children

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

Please donate to our work

Your support will help transform children's lives.

Next

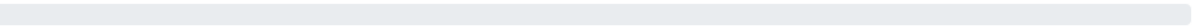


Figure G24: Treatment condition with COVID-19 frame

Please read the following information provided
by the charity **Save the Children**

On the following pages we will ask you some questions pertaining to the text below. Wherever relevant, the information will be displayed again.

Save the Children - 100 Years Working With Children

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

The coronavirus is already having devastating consequences for children and their rights. Health systems, both in poor countries and the NHS, are being overwhelmed. Children have had their education disrupted by school closures. Many face the prospect of poverty.

With the pandemic now spreading into some of the world's poorest countries and in the UK, there is a real danger that we will see a reversal of the gains made over the last 20 years. There is an alternative.

Please donate to our work

Your support will help transform children's lives.

Next

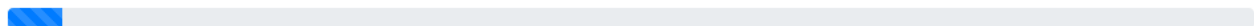


Figure G25: Emotion elicitation

Please think of an average Prolific participant from the UK who might receive this donation appeal.

Save the Children - 100 Years Working With Children

[Toggle text](#)

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

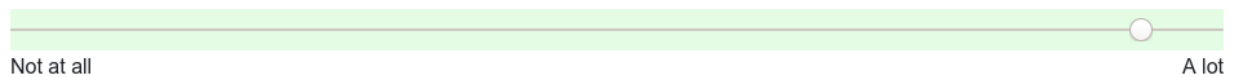
Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

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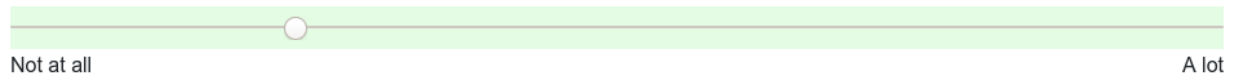
Please donate to our work
Your support will help transform children's lives.

How strongly would this appeal evoke the following emotions in such a person?

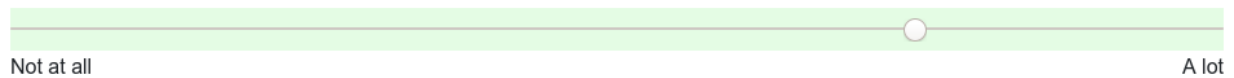
Compassion:



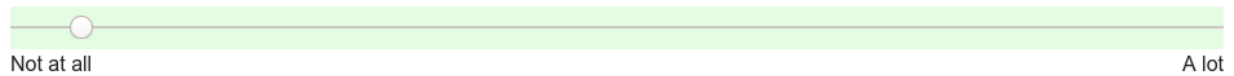
Contentment:



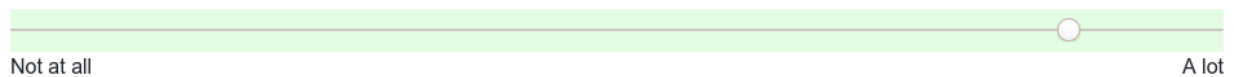
Sadness:



Contempt:



Guilt:



Joy:

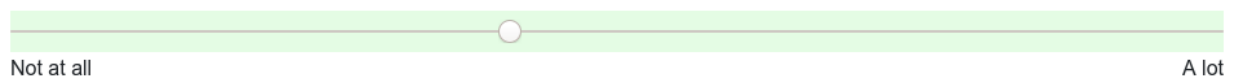


Figure G26: Expected use of donations

Please think of an average Prolific participant from the UK who might receive this donation appeal.

Save the Children - 100 Years Working With Children

[Toggle text](#)

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

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Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

Please donate to our work

Your support will help transform children's lives.

How might such a person respond to the following questions?

How fast will the money collected in this appeal reach people in need?

In months

What causes will be primarily supported by the money that is now being collected?

childcare, education, medication, disaster relief

[Next](#)

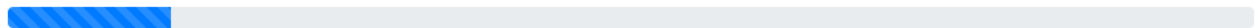


Figure G27: Perceived pressure when receiving donation appeal via Royal Mail

Please think of an average Prolific participant from the UK who might receive this donation appeal.

Save the Children - 100 Years Working With Children

[Toggle text](#)

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

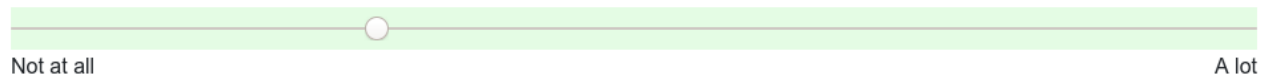
Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

Please donate to our work

Your support will help transform children's lives.

How might such a person respond to the following question?

The person would feel pressure to donate when receiving such a donation request in a letter by the Royal Mail.



[Next](#)

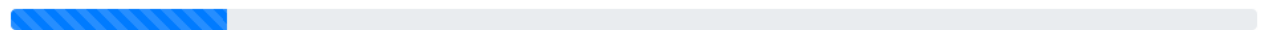


Figure G28: Perceived pressure when receiving donation appeal on Prolific

Please think of an average Prolific participant from the UK who might receive this donation appeal.

Save the Children - 100 Years Working With Children

[Toggle text](#)

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

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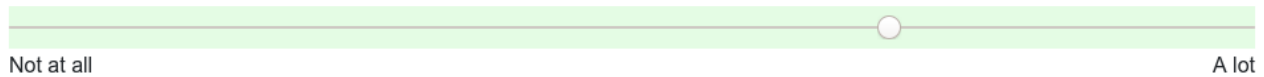
With the pandemic now spreading into some of the world's poorest countries and in the UK, there is a real danger that we will see a reversal of the gains made over the last 20 years. There is an alternative.

Please donate to our work

Your support will help transform children's lives.

How might such a person respond to the following question?

The person would feel pressure to donate when receiving such a donation request in a study on Prolific.



[Next](#)



Figure G29: Information about Transparency International

Please read the following information about Transparency International

Transparency International

Transparency International envisions a world in which government, politics, business, civil society and the daily lives of people are free of corruption. Transparency International's mission is to stop corruption and promote transparency, accountability and integrity at all levels and across all sectors of society.

Next

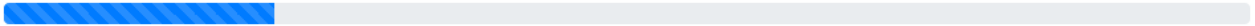


Figure G30: Comparison between charities: Transparency International

Please think of an average Prolific participant from the UK who might receive this donation appeal.

Save the Children - 100 Years Working With Children

[Toggle text](#)

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

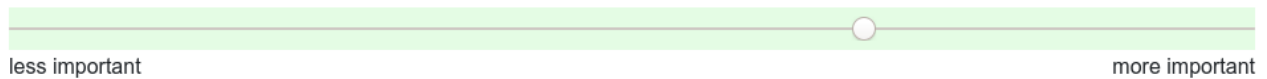
Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

Please donate to our work

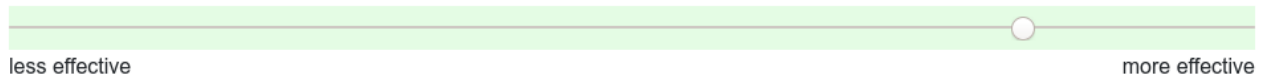
Your support will help transform children's lives.

How might such a person respond to the following questions?

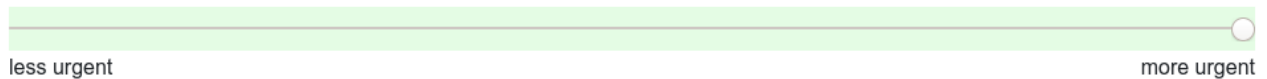
Giving to the above appeal by Save the Children is more or less important than giving to an appeal by Transparency International?



Giving to the above appeal by Save the Children is more or less effective than giving to an appeal by Transparency International?



Giving to the above appeal by Save the Children is more or less urgent than giving to an appeal by Transparency International?



[Next](#)

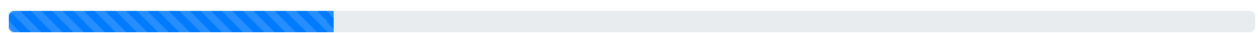


Figure G31: Information about Alzheimer's Society

Please read the following information about the Alzheimer's Society

Alzheimer's Society

The Alzheimer's Society envisions a world without dementia. Alzheimer's Society aims at transforming the landscape of dementia by finding a cure and create a society where those affected by dementia are supported and accepted, able to live in their community without fear or prejudice.

Next

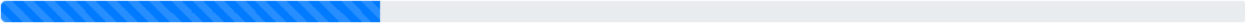


Figure G32: Comparison between charities: Alzheimer's Society

Please think of an average Prolific participant from the UK who might receive this donation appeal.

Save the Children - 100 Years Working With Children

[Toggle text](#)

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

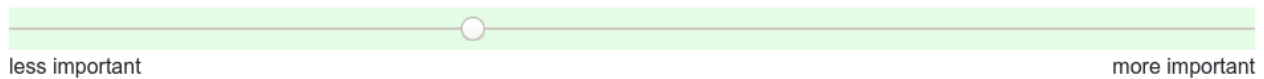
Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

Please donate to our work

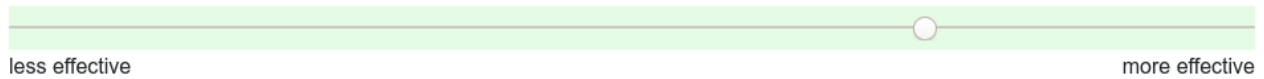
Your support will help transform children's lives.

How might such a person respond to the following questions?

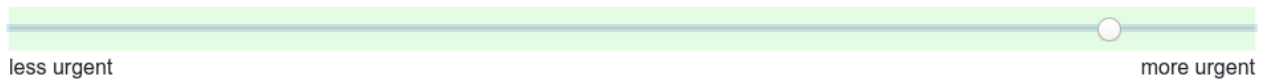
Giving to the above appeal by Save the Children is more or less important than giving to an appeal by the Alzheimer's Society?



Giving to the above appeal by Save the Children is more or less effective than giving to an appeal by the Alzheimer's Society?



Giving to the above appeal by Save the Children is more or less urgent than giving to an appeal by the Alzheimer's Society?



[Next](#)

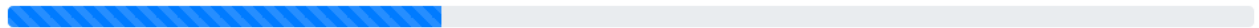


Figure G33: Information about World Wildlife Fund

Please read the following information about WWF (World Wildlife Fund)

WWF (World Wildlife Fund)

WWF is an independent conservation organization. Its mission is to create a world where people and wildlife can thrive together. WWF aims at finding ways to help transform the future for the world's wildlife, rivers, forests and seas; pushing for a reduction in carbon emissions that will avoid catastrophic climate change; and pressing for measures to help people live sustainably, within the means of our one planet.

Next

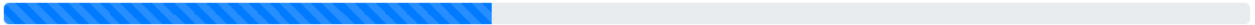


Figure G34: Comparison between charities: World Wildlife Fund

Please think of an average Prolific participant from the UK who might receive this donation appeal.

Save the Children - 100 Years Working With Children

[Toggle text](#)

At the beginning of the 20th century, two sisters had a vision to protect children and their rights. 100 years later, Save the Children is still fighting to give children a healthy start in life, the chance to learn and protection from harm.

Around the world and in the UK, too many children still start life at a disadvantage simply because of who they are and where they are from.

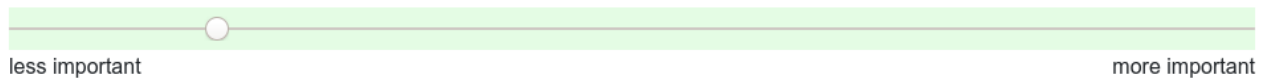
Save the Children has a bold ambition: we believe that all children could thrive, have the chance to learn, and be protected from abuse, neglect and exploitation.

Please donate to our work

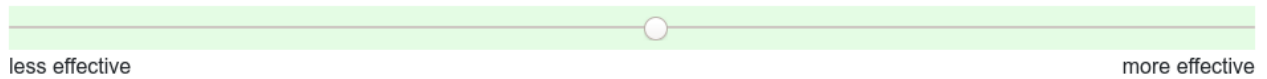
Your support will help transform children's lives.

How might such a person respond to the following questions?

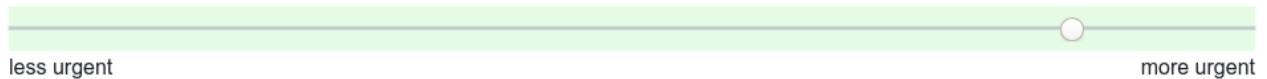
Giving to the above appeal by Save the Children is more or less important than giving to an appeal by WWF?



Giving to the above appeal by Save the Children is more or less effective than giving to an appeal by WWF?



Giving to the above appeal by Save the Children is more or less urgent than giving to an appeal by WWF?



[Next](#)

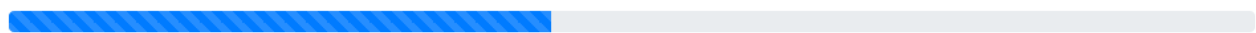


Figure G35: Introduction to the personal survey

Your personal experience

We ask you to answer some additional survey questions. The topics of the survey are your experience with and opinions regarding COVID-19* as well as your personal situation.

Your answers will be used for research purposes only. The analysis and presentation of all results will not allow any inference on your individual person.

* COVID-19 is the disease caused by SARS-CoV-2, also known as the novel coronavirus.

Next

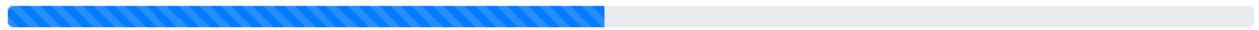


Figure G36: Demographics

Your personal situation

How many adults, including yourself, live in your household?

How many children live in your household?

Where do you live?

- In a city with over 100,000 inhabitants
- In a city with up to 100,000 inhabitants
- In the commuter belt around a city
- In a rural area

What is your primary employment status?

- Employed or self-employed
- Unemployed but actively looking for work
- Student
- Apprentice
- Retired
- Not in the workforce

Next


A progress bar at the bottom of the form, consisting of a blue hatched segment on the left and a grey segment on the right.

Figure G37: Location confirmation

In which area do you live?

Select your area from the list that will be shown after you start typing one of the following options:

- First part of your postcode.
- Name of your area, county or council.

Derbyshire

Derby

Stockport (Greater Manchester)

Rotherham (South Yorkshire)

Cheshire East

Derby

Tameside (Greater Manchester)

Sheffield (South Yorkshire)

If you cannot find your area from the input field above, please [click here](#).

Next

Figure G38: Experiences with COVID-19

Experiences with COVID-19

How many **confirmed COVID-19 cases** are there in **Derbyshire** to date? Please enter your guess:

Your guess: **50,000** confirmed cases in Derbyshire.

In your opinion, is the COVID-19 pandemic more or less severe in Derbyshire than in other areas in England?

More severe
 Equally severe
 Less severe

How many **confirmed COVID-19 cases** are there in the **UK** to date? Please enter your guess:

Your guess: **4,000,000** confirmed cases in the UK.

In your opinion, is the COVID-19 pandemic more or less severe in the UK than in developing countries?

More severe
 Equally severe
 Less severe

Next




Figure G39: Health situation

Your health situation since the outbreak of COVID-19

Has your health or the health of your family members been negatively affected by the COVID-19 pandemic?

A lot
 Somewhat
 Not at all

In the next 12 months, do you expect that your health or the health of your family members will be negatively affected by the Corona virus?

A lot
 Somewhat
 Not at all

Some people are at risk of becoming seriously ill if infected by COVID-19. What risk category do you belong to?

High risk (clinically extremely vulnerable)*
 Moderate risk (clinically vulnerable)**
 Neither of the above

NHS provides following information:

* **People at high risk (clinically extremely vulnerable) from coronavirus include people who:**

- have had an organ transplant
- are having chemotherapy or antibody treatment for cancer, including immunotherapy
- are having an intense course of radiotherapy (radical radiotherapy) for lung cancer
- are having targeted cancer treatments that can affect the immune system (such as protein kinase inhibitors or PARP inhibitors)
- have blood or bone marrow cancer (such as leukaemia, lymphoma or myeloma)
- have had a bone marrow or stem cell transplant in the past 6 months, or are still taking immunosuppressant medicine
- have been told by a doctor they you have a severe lung condition (such as cystic fibrosis, severe asthma or severe COPD)
- have a condition that means they have a very high risk of getting infections (such as SCID or sickle cell)
- are taking medicine that makes them much more likely to get infections (such as high doses of steroids)
- have a serious heart condition and are pregnant

** **People at moderate risk (clinically vulnerable) from coronavirus include people who:**

- are 70 or older
- are pregnant
- have a lung condition that's not severe (such as asthma, COPD, emphysema or bronchitis)
- have heart disease (such as heart failure)
- have diabetes
- have chronic kidney disease
- have liver disease (such as hepatitis)
- have a condition affecting the brain or nerves (such as Parkinson's disease, motor neurone disease, multiple sclerosis or cerebral palsy)
- have a condition that means they have a high risk of getting infections
- are taking medicine that can affect the immune system (such as low doses of steroids)
- are very obese (a BMI of 40 or above)

[Next](#)




Figure G40: Behavior since the outbreak of COVID-19

Behaviour since the outbreak of COVID-19

I have reduced the number of contacts with people outside my household:

A lot
 Somewhat
 Not at all

I have increased my stock of basic necessities, medication, or sanitary products:

A lot
 Somewhat
 Not at all

I wear a mask when I leave the house:

Always
 Sometimes
 Never

For which of the following activities did you leave your house in the last 4 weeks (multiple answers possible)?

Work
 Religious services
 Restaurant or café
 Basic grocery shopping
 Other shopping
 Walk a dog
 Physical activity or leisure outdoors alone or with members of own household
 Physical activity or leisure outdoors with members of other households
 Doctor or pharmacy
 Meet friends or relatives
 Help neighbours or family in need
 Social gatherings or demonstrations

Do you follow the guidance and advice of the UK government on the COVID-19 pandemic?

Always
 Very Often
 Sometimes
 Rarely
 Never

To what extent do you agree with the following statement? I have done my bit to prevent and tackle COVID-19.

Agree totally
 Agree partly
 Neither agree nor disagree
 Disagree partly
 Disagree totally

Please specify what have you done to prevent and tackle COVID-19:




Figure G41: Work situation

Your work situation

Were you working **before** the COVID-19 pandemic?

Yes, full time
 Yes, part time
 No

Have you experienced any of the following **since** the outbreak of the COVID-19 pandemic?

Permanently laid off
 Temporarily laid off (with pay)
 Temporarily laid off (without pay)
 Reduced number of working hours
 Increased number of working hours
 Start of a new job
 None of the above

If your experiences are not described well enough by one of the options above, please [click here](#).

How many days a week did you commute **before** the outbreak of COVID-19?

5

What mode of transport did you use **before** the outbreak of COVID-19?

Public transport
 Private transport

How long was your daily commuting time **before** the outbreak of COVID-19?

Less than 1 hour
 Less than 2 hours
 More than 2 hours

How many days did you commute **last week**?

0

In your daily life, is it easy to maintain a distance of at least 2 meters to people from outside your household?

Always
 Mostly
 Rarely
 Never

Do you work remotely or do you have this option?

Yes, I work (or can work) fully remotely
 Yes, but this option is only sometimes available
 No, I do not have the option of remote working
 Not applicable

Next




Figure G42: Financial situation

Your financial situation

Think of the last 12 months before the COVID-19 pandemic

Your total monthly household income from all sources before tax was:

- Up to £2000
- More than £2000 up to £5000
- More than £5000 up to £10000
- More than £10000

Your household was able to make ends meet:

- With great difficulty
- With some difficulty
- Fairly easily
- Easily

Has your economic situation been affected by the COVID-19 pandemic?

Relative to the time **before** the COVID-19 pandemic, your household income has:

- Decreased a lot
- Decreased somewhat
- Stayed the same
- Increased somewhat
- Increased a lot

Your household is able to make ends meet:

- With great difficulty
- With some difficulty
- Fairly easily
- Easily

In the next 12 months, do you expect that your economic situation will change?

Relative to the time **before** the COVID-19 pandemic, do you expect your household income will:

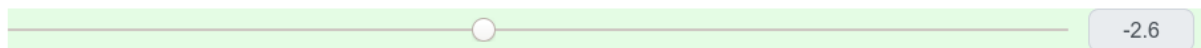
- Decrease a lot
- Decrease somewhat
- Stay the same
- Increase somewhat
- Increase a lot

Next

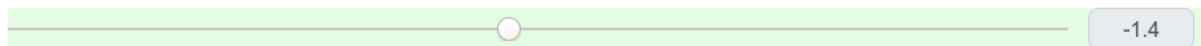
Figure G43: Economic situation

Economic situation in 2020

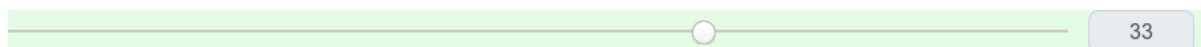
In 2019, UK GDP grew by 1.4%. What is your estimate of the GDP growth in the UK in 2020?



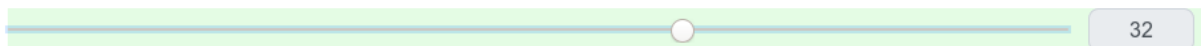
In 2019, IMF found the GDP growth in the developing economies was 3.7%. What is your estimate of the GDP growth in the developing economies in 2020?



In 2019, 22% of the UK population were living in poverty.* What is your estimate for the poverty rate in the UK in 2020?



In 2019, 23% of people in the developing countries were multidimensionally poor.** What is your estimate for the multidimensional poverty rate in the developing countries in 2020?



* The Social Metrics Commission's measure considers "poverty now": the extent to which the material resources that someone has available to them now meet the needs that they currently have.

** United Nations Development Programme and Oxford Poverty and Human Development Initiative considers a national Multidimensional Poverty Index which is a country-specific poverty measure tailored to each country's unique situation. Such measures generally take the dimensions of health, education and living standards as their starting point, and supplement with different dimensions measured by locally appropriate indicators.

Next



Figure G44: Main news sources

Your main news sources

Which of the following have been your **main news sources** in the last 4 weeks?

- The BBC tv station, Channel 4, ITV, Channel 5
- The BBC radio
- Other tv stations
- Other radio stations
- Print or online versions of The Guardian, The Observer, The Economist, i newspaper, Financial Times, or BBC online
- Print or online versions of other newspapers and magazines
- Government and official news sources
- Other online news
- Search engines and other websites
- Magazines
- Friends and family
- Social media

[Next](#)


A horizontal progress bar at the bottom of the form, consisting of a blue hatched section on the left and a grey section on the right.

Figure G45: COVID-19 risks and policies

COVID-19 risks and policies to counteract the pandemic

What do you think about the risks from COVID-19?

- Most people have no symptoms or only few flu-like symptoms; otherwise COVID-19 isn't very dangerous.
- Only people with several pre-existing conditions die after getting COVID-19 and any of those conditions could have been the reason for their death.
- Older members of the population and risk groups can become seriously ill after infection with COVID-19.
- Anyone can become seriously ill after infection with COVID-19.
- Many people infected with COVID-19 become seriously ill.
- Most people infected with COVID-19 become seriously ill.

What do you think about the lockdown to contain the spread of COVID-19?

- There shouldn't have been any lockdown; it is not clear whether it helps at all.
- The lockdown is damaging to the economy and the health benefits of the lockdown do not outweigh the economic risks.
- The lockdown is harming the economy and the health benefits of the lockdown might not outweigh the economic risks.
- The lockdown is necessary to contain the spread of COVID-19.
- No measure is too costly to contain the spread of COVID-19.

The policies against the spread of COVID-19 taken by the UK government are overall:

- Much too lax
- Somewhat too lax
- Just right
- Somewhat too harsh
- Much too harsh

With which statement do you agree more?

- The Coronavirus is man-made.
- The Coronavirus is natural in origin.

With which statement do you agree more?

- The Coronavirus was spread on purpose.
- The Coronavirus was spread unintentionally.

When do you think the COVID-19 pandemic will be over in the UK?

In months

Have you received a COVID-19 vaccination yet?

- No
- Yes, one shot
- Yes, two shots

Are you worried that new variants of COVID-19 will make it difficult to end the pandemic?

- Yes, very worried
- Yes, somewhat worried
- Not sure
- No, not very worried
- No, not worried at all

[Next](#)


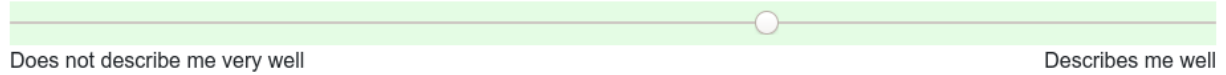


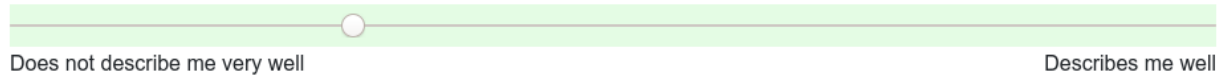
Figure G46: Empathy

Your thoughts and feelings

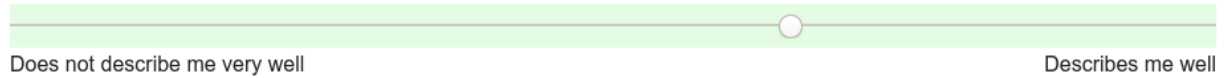
I often have tender, concerned feelings for people less fortunate than me.



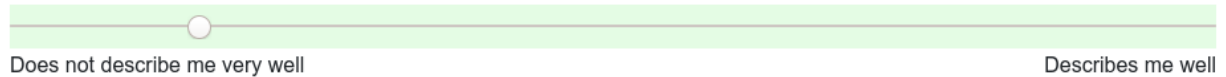
Sometimes I **don't** feel very sorry for other people when they are having problems.



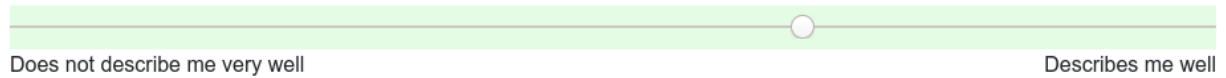
When I see someone being taken advantage of, I feel kind of protective towards them.



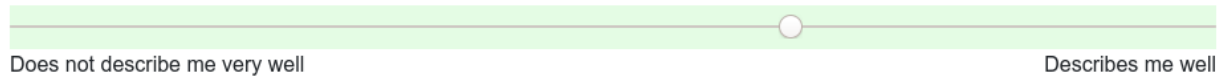
Other people's misfortunes **do not** usually disturb me a great deal.



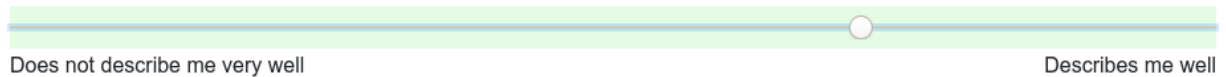
When I see someone being treated unfairly, I sometimes **don't** feel very much pity for them.



I am often quite touched by things that I see happen.



I would describe myself as a pretty soft-hearted person.



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Figure G47: Payment info

Thank you for participation in this study!

Payment

For your participation in this study you will receive £2.00 on your Prolific account **None**.

Comments

Do you have any comments about this survey:

Contact

For further questions please contact us under donationstudy@wzb.eu

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References

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