## Trust in science and experts during the COVID-19 outbreak in Italy

Pietro Battiston\*1, Ridhi Kashyap $^{\dagger 2,3}$ , and Valentina Rotondi $^{\ddagger 2,3}$ 

 $^{1} \mbox{University of Parma}$   $^{2} \mbox{Nuffield College, University of Oxford}$   $^{3} \mbox{Department of Sociology \& Leverhulme Centre for Demographic Science,}$   $\mbox{University of Oxford}$ 

May 8, 2020

#### Abstract

Trust in science and experts is extremely important in times of epidemics to ensure compliance with public health measures. Yet little is known about how this trust evolves while an epidemic is underway. In this paper, we examine the dynamics of trust in science and experts in real-time as the high-impact epidemic of Coronavirus (COVID-19) unfolds in Italy, by drawing on digital trace data from Twitter and survey data collected online via Telegram and Facebook. Both Twitter and Telegram data point to initial increases in reliance on and information-seeking from scientists and health authorities with the diffusion of the disease. Consistent with these increases, using a separately fielded online survey we find that knowledge about health information linked to COVID-19 and support for containment measures was fairly widespread. Trust in science, relative to trust in institutions (e.g. local or national government), emerges as a consistent predictor of both knowledge and containment outcomes. However, over time and as the epidemic peaks, we detect a slowdown and turnaround in reliance and information-seeking from scientists and health authorities, which we interpret as signs of an erosion in trust. This is supported by a novel survey experiment, which finds that those holding incorrect beliefs about COVID-19 give no or lower importance to information about the virus when the source of such information is known to be scientific.

JEL codes: I12, I20

**Keywords**: COVID-19, pandemic, trust, science, experts, survey experiment, digital traces.

<sup>\*</sup>me@pietrobattiston.it

<sup>†</sup>ridhi.kashyap@nuffield.ox.ac.uk

<sup>&</sup>lt;sup>‡</sup>valentina.rotondi@sociology.ox.ac.uk

## Introduction

10

12

13

14

15

16

17

18

19

20

21

22

23

24

26

27

28

29

30

31

33

34

35

36

37

Even in the public, that stubbornness to deny the plague was naturally giving way and losing itself as the disease spread, and spread because of contact and practice; and even more so when after having only been among the poor for some time, [the plague] began to touch better known people. Alessandro Manzoni, The Betrothed, ch. XXXI

The quote above comes from a 19th century Italian national literary classic in which the writer Alessandro Manzoni describes the plague outbreak in Milan in the 1630s. In the novel, Manzoni vividly writes about moments when the disease was already spreading but, due to misleading communication and mistrust in experts, few were inclined to take precautions for its containment. However, "the stubbornness to deny" the epidemic gave way, as the disease spread fast and the measures that were eventually taken to contain it were as dramatic as the epidemic itself. As the novel coronavirus (COVID-19) epidemic spreads across the world, Manzoni's characterisations of the dynamics of disease spread, public perceptions of it, and their willingness to respond to experts and modify behaviours, seem as relevant and important to understand today.

Scientific research has brought multifarious benefits to people's daily lives, and public trust in science and in experts should be a natural extension of science's cultural achievements (Barber, 1990). Moreover, trust in science and in scientific experts is essential to the functioning of modern, highly differentiated societies, where knowledge is highly specialized and complexity is constantly growing (Luhmann, 1979). Aligned with this, people across the world report fairly high levels of trust in science and in scientists (Gallup, 2019), and this trust often exceeds trust in other institutions such as government or media (Pew Research Center, 2019). Yet, the public health crisis triggered by the spread of the novel coronavirus (COVID-19) since December 2019, has occurred in a landscape when forces questioning science and the validity of expert opinions have gained greater visibility worldwide. In the recent past, the so-called vaccination backlash (Shetty, 2010) resulted in a return of measles in Europe and North America, and a broader environment of mistrust of scientific experts and tensions between politics and science have been noted in a number of countries and in the context of significant issues such as climate change (Nature, 2017; Larson, 2016).

Trust in science and in experts is particularly important in times of epidemics such as COVID-19. Although empirical research analysing the relationship between public health and public trust remains limited, existing

literature indicates that variables linked to trust in experts and institutions (e.g. national and local governments) are important correlates of citizens' compliance with public health policies, restrictions and guidelines (Bavel 41 et al., 2020; Vinck et al., 2019; Blair et al., 2017; Siegrist and Zingg, 2014; Gilles et al., 2011; Prati et al., 2011; Whetten et al., 2006). However, sustaining trust can be challenging in times of uncertainty and risk (Bavel et al., 2020; Siegrist and Zingg, 2014; Larson and Heymann, 2010). For example, in 45 the early days of the Ebola epidemic in Western Africa in 2013, the lack of 46 trust in healthcare providers led affected families to hide sick family members 47 (Larson, 2016). Based on these experiences, the World Health Organization 48 (WHO henceforth) cited the lack of trust in the health system as a major driver of the failure of the containment of the later Ebola outbreak (World Health Organization, 2019). 51

52

53

54

55

57

58

59

60

61

62

64

65

66

67

71

72

73

Understanding how trust in science and in experts evolves in the context of an unfolding epidemic is, therefore, crucial. Yet little is known about how trust evolves during an epidemic. How does trust in science and experts affect perceptions and knowledge about the disease while the epidemic is underway? How does trust in science and health experts – compared with trust in government institutions – affect the success of public health messaging and citizens' support for containment policies? Here, we address these questions by examining the dynamics of trust in science and experts in real-time as the high-impact epidemic of COVID-19 unfolds in Italy by leveraging complementary sources of digital trace and survey data (including a survey experiment) collected using three online platforms: Twitter, Telegram, and Facebook.

As of end-April 2020, Italy was one of the most severely affected countries by COVID-19. While each province in Italy had confirmed cases of the virus by mid-March 2020, the diffusion of the outbreak has been very heterogeneous with the majority of cases being concentrated in Lombardy, one of the wealthiest regions in the north of the country. Italian authorities have implemented draconian measures to tackle the COVID-19 outbreak. However, especially at the beginning of the outbreak, media reports suggested that the effectiveness of most of these measures was limited because the public received them with reluctance (Giuffrida and Cochrane, 2020). As Italy enters the next stage of the management of the epidemic and steps are taken to gradually loosen the 'lockdown' – and several other countries also confront this next stage – a deeper understanding of how public trust in science and experts has evolved over the course of the COVID-19 outbreak, as well as

<sup>&</sup>lt;sup>1</sup>A description of the measures taken by the Italian government to contain the outbreak is given in Supplementary Information S1.

the role of trust in shaping public attitudes towards public health measures in the context of an ongoing pandemic is vital.

Given the continued diffusion of COVID-19 and the heterogeneity in the 79 levels of the contagion, Italy represents a relevant, timely, and interesting case study to examine how trust in science and experts unfolds during an 81 epidemic. To understand these processes, we leverage primary data fielded 82 through a pre-registered online survey collected in four waves via the pop-83 ular messaging app, Telegram, as well as digital trace data on geo-localised 84 Tweets. Using both these data sources, we first examine how the willing-85 ness to consult experts and authoritative sources of information regarding 86 COVID-19 evolves over time and space as the epidemic spreads. Second, us-87 ing a separate, pre-registered survey experiment fielded to a geographically-88 targeted pool of Facebook users in Northern Italy with varying proximity to 89 outbreak areas, we analyse beliefs and misperceptions regarding COVID-19 90 and assess if people's willingness to modify misperceptions with respect to 91 the virus differs when the source of the same information is experimentally 92 manipulated. 93

## $_{\scriptscriptstyle{14}}$ Hypotheses

78

103

104

105

106

107

108

109

110

111

112

114

Trust in experts and institutions is important in contexts where individuals lack the knowledge to make decisions and are unable to evaluate and understand the risks associated with a hazard (Siegrist and Cvetkovich, 2000). A public health crisis such as the COVID-19 outbreak provides such a setting, as existing research indicates that concepts linked to infectious diseases (e.g. herd immunity) are often poorly understood by the public (Zingg and Siegrist, 2012), and the outcomes of recommended behavioural measures for disease control are not clearly, nor immediately, visible (Betsch, 2020).

Although trust is theoretically important for the management of pandemics, it is also likely to be affected by the diffusion of the outbreak. The empirical literature on the dynamics of trust in science and experts in the context of crises is scant. There is some evidence, however, that crises can affect generalized trust and trust in authorities, but results point in different directions. In their study of the Ebola outbreak in West Africa in the three most affected countries of Guinea, Liberia, and Sierra Leon, Flückiger et al. (2019) found that trust in central government (parliament and president) and police increased in regions with higher exposure to the epidemic. Shupp et al. (2017) showed, for instance, that people who were affected by a tornado exert an increased level of general trust but also an increased level of trust in authorities and civil servants, such as police and firefighters. Evi-

dence on how long effects of changes in trust last is also mixed. For example, Calo-Blanco et al. (2017) showed that trust and social cohesion increased after a large-scale earthquake but slowly weakened as environmental conditions improved over time. In contrast, Aassve et al. (2020) found that the spread of the Spanish flu of 1918 is negatively and significantly correlated with generalized trust in the United States today.

The above-mentioned studies examine trust outcomes after the crisis; how these changes occur as these events are underway is less well understood. An exception here is van der Weerd et al. (2011) who analysed the dynamics of trust in government during the H1N1 pandemic in the Netherlands and found that it decreased during the outbreak. The reasons recorded in their survey for weakening trust changed during the course of the pandemic, with the most reported reason being the perception that information was incomplete or withheld, to a belief in the later stage that the threat had been exaggerated by the government. Heterogeneity in the intensity of the outbreak may also affect dynamics of trust, as suggested by Fong and Chang (2011) who found that trust was not a significant predictor of community actions during the SARS outbreak in Taiwan where larger outbreaks occurred. These findings suggest that a perceived inability to control an outbreak may erode trust in authorities.

In light of the above, we hypothesize that, on average, trust and attention to scientific sources of information increase as a first reaction to the outbreak through an unconditional reliance on experts when facing an increased level of risk. However, this effect may begin to decrease over time as the epidemic continues to spread and as frustration against experts as well as authorities sets in who are perceived as unable to stop the diffusion of the disease. We anticipate that these dynamics of an increase followed by a stall to occur especially in areas that are affected at a later time, following a reversed U-shaped curve. In areas that are hit unexpectedly first, we expect frustration to erode trust as time from initial outbreak passes.<sup>2</sup>

At the individual level, we expect trust in science to be positively correlated with better knowledge about health information linked to the virus, as well as acceptance of containment policies. We expect that those who trust science are also more receptive to information derived from experts while those with weaker trust in science tend to trust even less the information coming from experts during an epidemic.

<sup>&</sup>lt;sup>2</sup>These hypotheses were pre-registered: https://osf.io/txby2

## Results

## Trust dynamics during an epidemic

We used the Twitter API to download all geo-located tweets posted between February 25 and April 15, 2020, including either of the three most popular hashtags related to the COVID-19 outbreak in Italy (further details in M4). Using this dataset, we study how social media attention given to scientists evolves over time and space as the virus spreads. We first focus on mentions to scientists' Twitter accounts to assess: 1) how attention given to scientists changes over time in the period between the end of February, when the first case of the virus is identified in Italy, until mid-April, by when Italy was widely believed to have passed the (first) peak,<sup>3</sup> and 2) whether subjects located closer to cases of contagion are over-, or underrepresented – that is, if citizens from these areas have a specific propensity to mention scientists. We also compare changes in attention to scientists relative to other Twitter accounts from categories, including health authorities (e.g. WHO, Italian Institute for Public Health), authorities (e.g. government, regions, municipalities), politicians, media, and a residual category of other that regroups all accounts, for which increases in volume denotes a dispersion of attention away from those most closely associated with information on COVID-19.

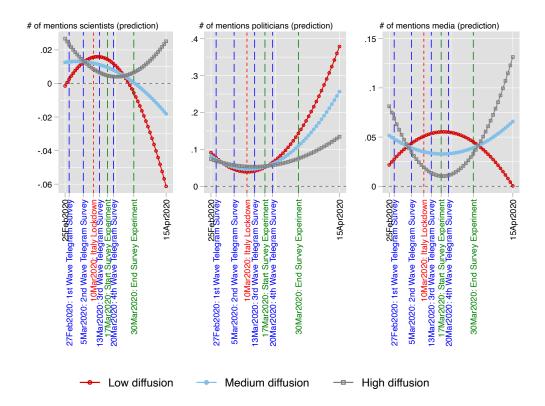
Figure 1 and Table S3 in Supplementary Information S3.1 show the results of Ordinary Least Squares (OLS) regressions as described in section M4 in the Methods section. Figure 1 (first panel) and column (3) of Table S3 in Supplementary Information S3.1 show that trust in scientists, as proxied by Twitter mentions to scientists, increases with time as the disease outbreak spreads but then stalls. Further exploring the heterogeneity of this effect by the intensity of disease spread, we detect that this (non-monotonic) reversed-U-shape pattern is driven by low and medium diffusion areas of the disease outbreak. The (non-monotonic) reversed-U shape also appears in Figure 2 (first panel) and column (1) of Table S4 where we focus on the average number of retweets (instead of mentions) per day for the three most mentioned scientist (Roberto Burioni, Ilaria Capua, Nino Cartabellotta) during the same period.

We further explore how attention paid to health authorities, authorities, politicians and media evolves over time and by disease intensity (columns 4–18 of Table S3 and columns 2–5 of Table S4 in Supplementary Information S3.1). Figures 1 and 2 highlight the categories for which non-monotonic patterns of heterogeneity by time and disease intensity are statistically sig-

<sup>&</sup>lt;sup>3</sup>See Figure S1 in S1 showing the level and the growth rate of the number of deaths tested positive for the COVID-19 in Italy during the course of the study.

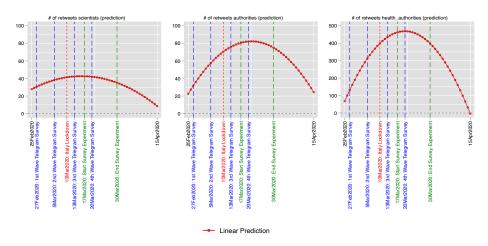
nificant. Similarly to scientists, we see initial increases in retweets of health authorities and authorities, as shown in Figure 2 over time, with a turnaround occurring in mid-March 2020, after the lockdown corresponding to the uptick in the number of deaths as shown in Figure S1 in S1. The volume of retweets of health authorities in particular is sizeable compared with the other two categories. Further, we see a shift in the categories that are mentioned over time, with decreasing attention to scientists and increases towards politicians. The biggest increases in mentions to politicians are in low to medium diffusion areas of the disease, which are the areas where mentions to scientists experience declines.

Figure 1: Evolution of Twitter mentions over time and space



Note: Marginal effect plots. OLS. Robust standard errors. Covariates (as described in Table S1 in the Supplementary Information S3.1) include Latitude and Total number of mentions. Low diffusion: wcc=0; High diffusion: wcc=1; Medium diffusion: wcc=0.5. wcc: Weighted cases count, i.e., per province-number of cases at date of tweet, weighted by the inverse of the square of the distance from each province. Results depicted in this figure are retrieved from column (3) of Table S3 in Supplementary Information S3.1.

Figure 2: Evolution of Twitter retweets over time



Note: Marginal effect plots. OLS. Robust standard errors. Covariates: time, time squared, total number of retweets. Results depicted in this figure are retrieved from column (1) of Table S4 in Supplementary Information S3.1.

Similar patterns are observed in the data we collected via an opt-in survey on the popular messaging app Telegram. In the survey, which was run on a channel of 60 000+ participants, we asked users about their desire (on a scale from 1 to 8) to receive information about the novel coronavirus from different sources, specifically: 1) doctors and scientists, 2) the government and local administration (authorities), 3) health authorities (e.g. WHO), and 4) celebrities (from show-business and sports). The first wave took place on February the 27th, 6 days after the discovery of the first case in Italy. The other waves were conducted on March 5, March 13 (just after the lockdown in Italy and corresponding to the descending path in the scientists panel on Figure 1 and to the the ascending path in the number of deaths, as shown in Figure S1 in S1), and March 20. Data from this survey allows us to directly track changes in self-reported preferences of individuals over time and space.

Figure 3 and Table S5 in Supplementary Information S3.2 summarise the results. Already at the first wave at the end of February, we observe that interest in receiving information from scientists and health authorities is higher than from other sources (authorities and celebrities). For each of the three categories of scientists, government authorities, and health authorities, there is a sizeable and significant overall increase of interest over time, and in several cases also from one wave to the following one; a decreasing pattern emerges instead for celebrities. However, both categories of experts – scientists and health authorities – feature a U-shaped pattern by which inter-

Scientists **Authorities** Health Auth Celebrities across waves DIff. 7 5 3.00 Interest 2.75 7.0 7.0 2.50 6.5 6.5 6.5

Figure 3: Summary of longitudinal evidence from Telegram survey

Note: responses to questions about desiring information on COVID-19 from specific sources. Bottom: average response for each wave (notice the different scale in the celebrities plot); top: difference between each wave and the first, with 95% confidence intervals. Post-stratification weights are applied to each wave to conform to the Italian population along demographic characteristics (age, gender, and education).

est increases until the third wave but then starts decreasing. Interest keeps increasing instead for authorities, perhaps unsurprisingly given the larger importance that public bodies bear when emergency laws are being put in place. For reference, the national lockdown was established on March 10, halfway through between the second and third wave.

220

221

222

223

224

225

226

227

228

229

230

233

234

235

236

237

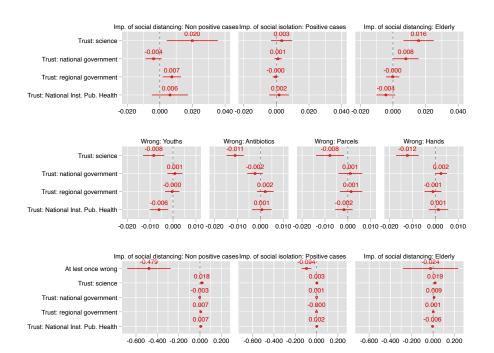
238

Examining heterogeneity by outbreak intensity (as measured by the same indicator as in the Twitter analyses, weighted case count (*wcc*) per province as described in Section M5, Table S6 in Supplementary Information S3.2 suggests that people living in areas where the disease diffusion is higher are more willing to receive information from all categories but celebrities. This effect is statistically significant for information from scientists.

## Trust in science, compliance and willingness to update wrong beliefs

We recruited via the Facebook ads platform a geographically targeted pool of online respondents and administered a pre-registered survey and a survey experiment. The exact wording of this survey's questions and of the treatment manipulation are reported in Supplementary Information S2.2. Our sampling strategy consisted of targeting 15 provinces in Lombardy (9) and Veneto (6), the two regions in northern Italy that were affected first by the pandemic. More specifically, our sampling strategy included a detailed ge-

Figure 4: Relationship between trust variables, holding wrong beliefs about information linked to the coronavirus, and importance of containment policies



Note: Weighted OLS. Covariates (as described in Methods section M6) include: gender, age, dummies for educational attainment (secondary, bachelor, master and higher), dummies for marital status (married, cohabiting, divorced, widow), a dummy for having children, dummies for employment status (housewife, employed, retired, student, other), mathematical skills, self-placement of a left-right scale, a dummy for outbreak areas (20km radius from outbreak cities), a dummy for Lombardy, a dummy for Veneto, and Latitude. Buffers represent 95% confidence intervals.

ographical targeting of some specific municipalities within those regions (in the provinces of Lodi and Padova) that experienced the earliest outbreaks and were quarantined since February 21st and some specific municipalities (in the province of Bergamo) that also experienced an early outbreak but were not quarantined until March the 10th.<sup>4</sup> The targeted provinces were the provinces where the spread of the infection was faster and the virus hit hardest. This is clear both from Figures S9 in Supplementary Information S3.3, showing the *wcc* value calculated from the geographical coordinates of the respondents, and from S10 in Supplementary Information S3.3 showing province-level data on cases tested positive for COVID-19 on March the 17th.

The survey experiment was administered from March 17th to March the 30th, i.e, corresponding to the part of Figures 1 and 2 where Twitter mentions and retweets to scientists is descending, and when a slowdown in informationseeking from scientists and health authorities also emerges in the Telegram survey between waves 3 and 4.5 The survey was also administered after the lockdown, when significant restrictions to movement had been imposed, and in a period where the COVID-19 mortality toll was continuously growing (See Figure S1 in S1). In the survey questionnaire, we asked respondents about the perceived importance of containment measures that had been implemented by the Italian government. Furthermore, we investigated knowledge about health information linked to the coronavirus through our survey experiment. This health information – the source of which was experimentally manipulated – was widely available on the website of Italian Institute for Public Health (*Istituto Superiore di Sanità*).<sup>6</sup> We apply post-stratification weights in our analyses to conform our sample to the Italian population along demographic characteristics (age, gender, and education).

Figure S13 in Supplementary Information S3.3 shows that by the second-half of March 2020, public health messages on the importance of social distancing and the isolation of positive cases had been widely received by the public, with more than 70% of the respondents assigning a value of 10 to the importance of social distancing, more than 90% assigning a value 10 to the importance of isolation of COVID-positive cases and more than 80% as-

<sup>&</sup>lt;sup>4</sup>See Supplementary Information S3.3 for a detailed description of the method of recruitment and sampling strategy adopted.

 $<sup>^5</sup>$ Note that this survey, which is more detailed, was independently administered from the Telegram survey.

<sup>&</sup>lt;sup>6</sup>The Italian Institute for Public Health is a scientific institution specifically aimed at promoting and protecting public health by carrying out research activities together with activities of public health training and monitoring. It serves as an external scientific body that advises the Ministry of Health, the Government, and the Regions with respect to public health issues. https://www.epicentro.iss.it/coronavirus/

signing value 10 to the importance of social distancing in particular for the elderly. Trust in science is found to be the most consistent predictor of agreement with measures of social isolation and social distancing (see Tables S10 – S13, and Figure S14 in Supplementary Information S3.3), net of a range of socio-demographic control variables and as shown in the upper panel of Figure 4.8 When we examine trust variables separately the largest coefficients in terms of magnitude are that of trust in science and trust in the Italian Institute for Public Health, as shown on Table S14 in Supplementary Information S3.3. Trust in science is mostly closely aligned with trust in the Institute for Public Health, and when computing an average between trust in science and in the Italian Institute for Public Health, and a separate average for trust in institutions (see Table S13 in Supplementary Information S3.3) only for former remains significant while the latter is not.

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

304

Knowledge about information linked to the coronavirus was also generally widespread in our sample, although this varied for different types of information. As shown in Figure S13 in Supplementary Information S3.3, weighted mean scores on all four questions linked to the coronavirus were generally high. Using a score of 10 (on a scale of 0 to 10) for complete accuracy, around 50% of the respondents knew that younger people are also at risk of contracting the coronavirus, and more than 70% knew that washing hands is important in preventing the coronavirus infection. Knowledge about other, more technical questions was comparatively less accurate – just over 30% knew that antibiotics are not helpful in treating the infection, and around 30% knew that it is safe to receive parcels from China or other countries where the virus has been identified. The middle panel of Figure 4 (and Figure S15 in Supplementary Information S3.3) mirror the results obtained so far by showing that trust in science is inversely proportional to the probability of having wrong beliefs about the virus. More specifically, Table S15 shows that a one point increase (on a scale from 0 to 100) in trust in science is related to a 1% decrease in the probability to hold incorrect beliefs across specifications, net of a range of socio-demographic controls. As with the agreement with social distancing measures, trust in science is a consistent predictor also of knowledge about information linked to coronavirus.

<sup>&</sup>lt;sup>7</sup>The exact wording of these questions reads as follows: On a scale from 0 to 10 in order to reduce the spread of the virus, how it is important in your opinion to: 1) Reduce the movement of individuals even if they have not tested positive for the virus, 2) Home isolation for those who tested positive for the virus, 3) That older people avoid leaving their homes.

<sup>&</sup>lt;sup>8</sup>When using in the same model trust in science, trust in institutions, and trust in the National Institute for Public Health, the only significant coefficient is that of trust in science.

Furthermore, those who were better informed about the coronavirus are also more supportive of containment policies for two out of three questions, as revealed by the bottom panel of Figure 4 (and Figure S15 in Supplementary Information S3.3).

Our treatment manipulation proceeded by asking three pieces of information about the coronavirus. In each of these cases, we first asked respondents for an answer, and then exposed them to information on the same topic by using directly relevant quotations from the website of the Italian Institute for Public Health. When providing them this current information, we randomised the framing (i) quoting the text as coming from public health experts, (ii) providing the same statement without any source. Finally, we asked if the subject wanted to change his/her responses to their original answers once the new information was provided. This exogenous treatment manipulation allow us to answer the question of whether the information source changes the propensity to adjust the respondents' beliefs (when wrong). The exact wording of the treatment manipulation is reported in Supplementary Information S2.2.

The results of this exogenous treatment manipulation are depicted in Figure 5. The bars represent marginal effect plots of treatment effect for each one of the four questions<sup>9</sup> while the right panels plot the marginal effects of the interaction between information received by experts (our treatment manipulation) and the average distance from early outbreak areas described above.<sup>10</sup>

Figure 5 show that those holding incorrect beliefs about the disease give no (for the question about antibiotics being effective in preventing the coronavirus infection –i.e., panel B.1 – and that on the importance of washing hands –i.e., panel D.1 of Figure 5) or significantly lower (for the question about younger people being also at risk of contracting the coronavirus infection –i.e., panel A.1 – and that about receiving parcels from China –i.e., panel C.1 of Figure 5) importance to information when the source of such information is known to be scientific.<sup>11</sup> These results are also confirmed by a simplified version of the survey experiment nested within the last wave of the Telegram survey (details are available in the Methods Section M5).

<sup>&</sup>lt;sup>9</sup>Are younger people also at risk of contracting the coronavirus? Are antibiotics helpful in preventing the new coronavirus infection? Is it safe to receive parcels from China or other countries where the virus has been identified? Is washing hands really useful in preventing the coronavirus infection?

<sup>&</sup>lt;sup>10</sup>Given the purposely localized targeting chosen for this analysis, distance from the initial outbreak areas can be interpreted both as a measure of duration of exposure and intensity of exposure.

<sup>&</sup>lt;sup>11</sup>Our randomization worked well: see table S8 in Supplementary Information S3.3.

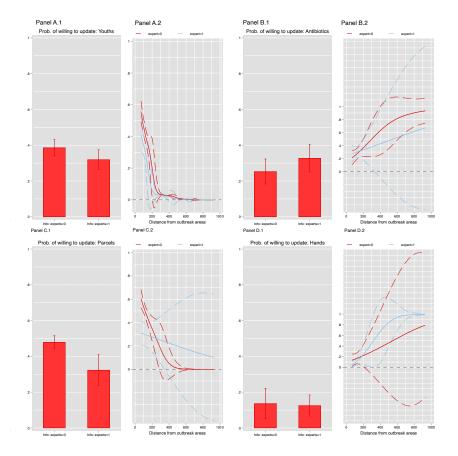


Figure 5: Information and willingness to update wrong beliefs

Note: Left panels: Marginal effect plots of treatment effects (reference to experts in the information received). Buffers represent 95% confidence intervals. Standard errors clustered at the province-level. Right panels: Interaction between information received by experts and distance from outbreak areas. Weighted Logit Marginal Effects. Covariates (as described in Table S7 in Supplementary Information S3.3) include: gender, age, dummies for educational attainment (secondary, bachelor, master and higher), dummies for marital status (married, cohabiting, divorced, widow), a dummy for having children, dummies for employment status (housewife, employed, retired, student, other), mathematical skills, self-placement of a left-right scale, a dummy for outbreak areas (20km radiuos from outbreak cities) or average distance from outbreak areas, a dummy for Lombardy, a dummy for Veneto, and Latitude. Buffers represent 95% confidence intervals. Wording of the questions reported in Supplementary Information S2.2.

These main results are corroborated by a number of sensitivity tests where we make use of different measures of trust and of distance from early outbreak areas as described in Section M6 and as shown in Tables S10–S14, Tables S15–S20, Tables S21 – S22, and in Tables S23–S26 in Supplementary Information S3.3.

Panels A.2, B.2, C.2, and D.2 of Figure 5 further show that the reluctance to update wrong beliefs in two out of four outcomes is more pronounced for those living closer to early outbreak areas (i.e., the red line being significantly higher than the light blue line in Panel A.2 and C.2 of Figure 5). This is consistent with an idea of erosion of trust in experts due to frustration as time passes and the disease outbreak spreads. These results experimentally corroborate the patterns suggested by the digital traces and the Telegram survey, which showed that during the period that our survey experiment was (unintentionally) fielded, indicators linked to trust in scientists and health authorities were descending.

## Conclusions

Drawing on digital trace and survey data, our study shows how trust in experts has evolved in Italy in the context of the COVID-19 pandemic. Shortly after the identification of the first cases of COVID-19 in Italy in February 2020, both Twitter and Telegram data pointed to initial increasing attention and information-seeking from scientists and health authorities. However, we found a stall in this increase, and in particular on Twitter, where data are available over a longer period of time, we detected declines in social media attention to scientists and health authorities after mid-March 2020, taking the form of a reversed-U-shape.

Complementing Twitter and Telegram, we administered a separate survey to Facebook users geographically targeting two northern Italian regions with significant disease outbreaks to examine individual knowledge about the virus, support for containment policies, as well as experimentally assess trust in experts. The increasing willingness to consult expert sources, as suggested by the Telegram and Twitter data in the period leading up to the Facebook survey, was also reflected in knowledge outcomes. In the survey, we found generally high levels of public understanding of information about the disease as well as support for containment measures. Better knowledge was also correlated with greater support for containment measures.

However – echoing the signs of a declining levels of attention to scientists and health authorities in Twitter and Telegram – our survey experiment found that individuals with incorrect information about the virus were

either *not* or *less* willing to correct it when receiving information from a scientific source than when the source of the same information was not explicitly stated. Examining geographical heterogeneity, we found that those living closer to early outbreak areas with longer exposure to the outbreak were less willing to update their incorrect beliefs.

Our findings, across the different, complementary data sources suggest an erosion of trust in scientists and scientific authorities in Italy with longer exposure to the COVID-19 pandemic. Following from our hypotheses, we interpret these dynamics to suggest that over time, and with continued disease diffusion and inability to curb it, frustration emerges that weakens trust. In the survey experiment, this effect is most clear in areas close to the early outbreaks areas and that witnessed already two weeks of quarantine. In these areas, although average levels of knowledge about the virus and support for containment was high, with time by late-March, a lack of willingness to modify beliefs in response to expert information appeared among those holding incorrect beliefs. Although by the time of the survey experiment we did not see this effect in other areas, these results suggest that it may appear with longer duration of exposure and if perceptions of an inability to manage the outbreak also take root in other places.

A shortcoming of our data is that they do not enable us to disentangle the mechanisms behind the erosion of trust. While we hypothesize that the inverted U-shape would be caused by a mechanism of frustration with the inability to curb an epidemic, we nevertheless recognize that potentially fragmented scientific communication (due to the often heterogeneous positions about the coronavirus among experts themselves) is also a plausible mechanism for the erosion of trust. Indeed, the results of a poll conducted by an Italian observatory on trust in science in March and April 2020 show that public opinion about scientists communication activities in Italy was divided (Observa Science in Society, 2020). Almost one Italian out of two believed that the diversity of opinions given by experts in their interventions created confusion (48%); and 8% positively acknowledged the competence of the Italian scientific experts in the merit, while negatively assessed their communicative ability. The same study, however, shows that perceptions about risk did not diminish, but instead increased over the period between March and April, as did the share of those supporting the idea of staying at

It is nonetheless plausible that different mechanisms underlie frustration in different areas, varying by the extent of their local outbreaks. For example, in high intensity areas, where our survey experiment was administered, longer exposure without resolution may erode trust, whereas in low-intensity areas, a weaker perception of a threat and the continuation of stringent containment

measures may affect trust. This latter pattern is suggested by the Twitter 417 data, where the reversed-U-shape in attention to scientists is driven by low-418 and medium-intensity outbreak areas. Our results nevertheless suggest that, 419 although in the face of a new threat, trust and reliance on scientists and ex-420 perts increases – continued trust is not inevitable, and trust is itself affected 421 by the dynamics of the pandemic. Even when the pandemic is underway, our 422 results point to the importance of trust in science and public health author-423 ities, which emerges as a resilient predictor of both public health knowledge 424 and containment support. To sustain public trust in science throughout a 425 crisis, our study points to the need for clear, sustained and transparent chan-426 nels of information communication from scientific authorities to the public 427 to anticipate and guard against frustration. 428

Author contributions All authors contributed equally to this work. PB, RK and VR conceived and designed the research. PB, RK and VR developed analysis plan. VR and PB analysed the data. PB, RK and VR wrote the paper.

**Acknowledgements** All authors wish to thank the owners of the @Ul-433 timora Telegram channel, Luigi Buraschi and Paolo Allegro, for their sup-434 port in this research, and Luca Stanca for useful inputs. We are grateful for 435 the financial support of Nuffield College, and technical and administrative 436 support provided by the team at Centre for Experimental Social Sciences at 437 Nuffield College, including Raymond Duch, Thomas Robinson, Noah Bacine, 438 Melanie Sawers, and Chandru Swaminathan. We thank participants of (vir-439 tual) seminars of the DisCont research group at Bocconi University, the eco-440 nomics group at the University of Cagliari, and the Nuffield College Sociology Group for constructive feedback. RK and VR are supported by the Leverhulme Trust, Leverhulme Centre for Demographic Science. 443

## $_{\scriptscriptstyle{444}}$ Methods

## 445 M1 Ethical approval and informed consent

This study was approved by the University of Oxford Central University Research Ethics Committee (Reference number: R68769/RE001) and has been run in accordance with rules and procedures of the Centre for Experimental Social Sciences (CESS) at Nuffield College in the University of Oxford. These are described at the following link: https://cess-nuffield.nuff.ox.ac.

uk/experiments/for-researchers/. The study received also external ethical review through the CESS ethics committee. All participants provided written informed consent prior to enrolment in the study. A copy of the consent form is reported in Supplementary Information S3.3.

## 455 M2 Pre-registration

The hypotheses and methods used in the study have been pre-registered. A copy of the original documentation is available at this link: https://osf.
io/8bhn4/ with the following DOI: 10.17605/OSF.IO/TXBY2

## 459 M3 Data and methods

We employed multiple approaches of data collection.

#### 

477

478

479

480

481

482

484

The sample of geo-located tweets was obtained by downloading through the 462 Twitter API all tweets posted between February 25 and April 15, 2020, con-463 taining at least one of the three most popular hashtags linked to the COVID-464 19 outbreak in Italy: #coronavirusitalia, #covid19italia, and #covid19italu. 465 This resulted in 12232 tweets, posted by 4755 unique users. Each tweet 466 has on average 0.43 mentions, that is, references to other Twitter accounts, 467 resulting in a total of 5318 mentions. First, all profiles mentioned 3 times or 468 less were flagged as "unclassified". Then, a category "foreigner" was made 469 to include all individual accounts (hence excluding media outlets and health 470 organizations) that mostly tweeted in languages other than Italian. Then, 471 all 362 remaining accounts were manually classified into the following cat-472 egories: "politicians", "scientists", "authorities", "health authorities", "me-473 dia", "journalists" and a residual category "other". All categories defined 474 this way are mutually exclusive. 475

The "authorities" category includes official accounts of public entities such as Twitter accounts of government, regions, municipalities, as well as embassies; the "health authorities" category includes authorities and institutes focusing on health, such as the Italian Health Institute and the World Health Organization (WHO)); the "scientists" category includes instead only personal accounts of individual scientists and researchers, regardless of whether the owner holds a position in hospitals, universities, research centres or public administration.

The resulting data are analysed using the following model:

$$Category = \beta_0 + \beta_1 w_{cc} + \beta_2 time + \beta_3 time^2 + \beta_4 total + \beta_5 latitude$$
 (1)

where *category* is the number of mentions to Twitter users in a given class, *wcc* is a measure of the intensity of the diffusion of the disease and is calculated as the per-province number of cases at date of tweet, weighted by the inverse of the square of the distance from each province, and *total* is the total number of mentions (to users in any category) as a control for overall Tweet volume. The model specification includes also latitude to account for the well-known North-South Italian gradient in behaviors. Equation (1) is estimated using OLS with standard errors robust to heteroskedasticity.

The sample of retweets is composed by the retweets for the three most cited accounts within each category<sup>12</sup> in each category in the previously described dataset. This resulted in 54,263 retweets. Each tweet has on average 67 retweets, resulting in a total of 3,239,575 retweets. Retweets are analysed by estimating Equation (2) using OLS with standard errors robust to heteroskedasticity.

Summary statistics for our two Twitter datasets are depicted in Tables S1 and S2 is Supplementary Information S3.1.

$$Category = \beta_0 + \beta_1 time + \beta_2 time^2 + \beta_4 total$$
 (2)

## M5 Continuous survey via Telegram

Each wave of the interview was triggered by sending an invitation in a popular Telegram channel, covid19, dedicated to the diffusion of news (in Italian) about the pandemic. During the days elapsed between the first and the fourth wave, the channel grew from around 50,000 to around 70,000 members. In total, we obtained 3,925 valid participant/wave combinations. The exact wording of the questions asked during the 4 waves of the data collection via Telegram is reported in the Supplementary Information S2.1. The first three waves were conducted entirely within the Telegram app, through a bot that interacted with participants asking the questions in sequence. In the fourth wave of the Telegram survey, in addition to the usual questions, an abbreviated form of the survey experiment administered to Facebook users was run on the Telegram pool by directing users to a Google Form survey.

<sup>&</sup>lt;sup>12</sup>Roberto Burioni, Ilaria Capua, Nino Cartabellotta for scientists, the Civil Protection, the President of the Republic and the Lombardy Region for authorities, the Ministry of Health, the WHO and the Red Cross for health authorities, the Change petitions website, the Serie A football league and the Pope's Italian account for "other".

We geo-localized respondents based on their ZIP codes. Given some technical issues, only 3592 out of 9025 survey responses were actually geo-localized.

Data obtained from Telegram are analysed by estimating Equation (3) by OLS with standard errors robust to heteroskedasticity:

$$AAA = \beta_0 + \beta_1 time + \beta_2 distance + \beta_3 time * wcc + \beta_4 latitude$$
 (3)

As with the Twitter analyses before, wcc is a measure of the intensity of the diffusion of the disease and is calculated as the per province-number of cases at date of the survey, weighted by the inverse of the distance from each province.

In terms of sample, Figure S3 in Supplementary Information S3.2, top, displays the distribution of respondents across age ranges. Consistently with the typical users of a Telegram channel, respondents are predominantly young, although this heterogeneity slightly decreases from the first wave to the following ones. Also heterogeneous, albeit less markedly, is the distribution by gender, with a larger proportion of male users, although the gender gap decreases over time. To account for these demographic biases of our sample, we use post-stratification weights for age, gender and education to re-weight the sample to match the Italian population along these dimensions. The weights are obtained through via iterative proportional fitting.

Figure S4 in Supplementary Information S3.2 displays the density of responses across Italy, based on the ZIP code of respondents. While each Italian region is covered, the responses are most frequent in Lombardy, followed by Veneto, the two regions most affected by the outbreak, particularly in the initial phase. Further details on the Italian outbreak and its mortality toll is shown in Figures S10 and S1. This suggests that members of the Telegram channel, which is specifically devoted to information on COVID-19, might have self-selected depending on their proximity to, and hence interest in, the outbreak.

## M6 Survey experiment via Facebook Ads

We recruited a geographically targeted online sample using the Facebook ads platform. Facebook is among the most widely used online social media platforms in Italy, and nearly 60% of the Italian population ages 18 and over are monthly active Facebook users. 13

<sup>&</sup>lt;sup>13</sup>Information retrieved from the Facebook ads API indicates there are 30 million Facebook monthly active users over the age of 18 as of April 21, 2020

We targeted specific municipalities, including both the early outbreak areas as well as those surrounding them, in the two provinces of Lombardy and Veneto, as described in further detail in Section S3.3. Respondents that opted in and clicked the ad were enrolled into the subject pool for the Centre for Experimental Social Sciences at Nuffield College. To minimise topical self-selection (Lehdonvirta et al., 2020) (e.g recruiting respondents with unusually greater interest in the coronavirus), our recruitment ad avoided any mentions to the content of our survey and only implied that survey respondents were sought for the CESS subject pool. Subsequently, the survey link was sent out to all those who entered the subject pool through the ad, and was administered via Qualtrics. The survey ran from March the 17th to March the 30th and we received a total of 994 completed responses. The exact wording of the questions administered is reported in the Supplementary Information S2.2.

The data have been analysed using the following model:

$$Outcome_i = \alpha + \delta_{1i} + \delta_{2i} + \delta_3 \times Z_{c,l} + \epsilon_i \tag{4}$$

Where  $Outcome_i$  is the outcome of interest,  $\delta_{1i}$ , and  $\delta_{2i}$  are a set of control variables including gender, age, dummies for educational attainment (secondary, bachelor, master and higher), dummies for marital status (married, cohabiting, divorced, widow), a dummy for having children, dummies for employment status (housewife, employed, retired, student, other), mathematical skills, self-placement of a left-right scale, a dummy for Lombardy, a dummy for Veneto, and Latitude. The models include also a measure of distance from early outbreak areas computed as follows: we geo-localized respondents based on their ZIP codes and we calculated for each respondent the average distance from the three main early outbreak municipalities of Codogno (Province of Lodi, Lombardy Region), Nembro (Province of Bergamo, Lombardy Region), and Vo' Euganeo (Province of Padua, Veneto Region). In some specifications we used, instead of the average distance, a dummy variable assuming value 1 if respondents were located within a radius of 20 Km from the three initial outbreak municipalities. The estimated models also include measures of trust in science and institutions as described in Table S7 in Supplementary information S3.3. Note that a cross-correlation table for these measures is depicted in Table S9 in Supplementary information S3.3.

Table S7 in Supplementary information S3.3 show the summary statistics for the variables used along the empirical analysis. We estimate our models either through OLS or Logit models (marginal effects) with robust standard errors clustered at the province-level. We refer the reader to the Supplementary Information S3.3 for an in-depth description of the data and of the

sensitivity checks conducted.

Research on the Italian setting has shown that Facebook is an effective survey recruitment tool that did not indicate any systematic demographic or psychometric biases (Kalimeri et al., 2020). Nonetheless, to account for potential demographic biases of an online, non-probability sample, our analyses applied post-stratification weights by age, gender and education to conform our sample to the Italian population.

## 591 M7 Software

The models estimations and plots were done in part with Stata and in part with Python, using the statsmodels, pandas, matplotlib and ipfn libraries.

## 94 References

- Aassve, A., G. Alfani, F. Gandolfi, and M. L. Moglie (2020). Epidemics and trust: The case of the spanish flu. *IGIER WP series* (661).
- Barber, B. (1990). Social studies of science. Transaction Publishers.
- Bavel, J. J. V., K. Baicker, P. S. Boggio, V. Capraro, A. Cichocka, M. Cikara,
- M. J. Crockett, A. J. Crum, K. M. Douglas, J. N. Druckman, J. Drury,
- O. Dube, N. Ellemers, E. J. Finkel, J. H. Fowler, M. Gelfand, S. Han,
- S. A. Haslam, J. Jetten, S. Kitayama, D. Mobbs, L. E. Napper, D. J.
- Packer, G. Pennycook, E. Peters, R. E. Petty, D. G. Rand, S. D. Reicher,
- S. Schnall, A. Shariff, L. J. Skitka, S. S. Smith, C. R. Sunstein, N. Tabri,
- J. A. Tucker, S. v. d. Linden, P. v. Lange, K. A. Weeden, M. J. A. Wohl,
- J. Zaki, S. R. Zion, and R. Willer (2020). Using social and behavioural
- science to support covid-19 pandemic response. Nature Human Behaviour.
- Betsch, C. (2020). How behavioural science data helps mitigate the covid-19 crisis. *Nature Human Behaviour*, 1–1.
- Blair, R. A., B. S. Morse, and L. L. Tsai (2017). Public health and public
- trust: Survey evidence from the Ebola Virus Disease epidemic in Liberia.
- Social Science & Medicine 172, 89–97.
- Buonanno, Paolo, Sergio, Puca, and Marcello (2020, Apr). Estimating the severity of covid-19: Evidence from the italian epicenter. SSRN.
- Calo-Blanco, A., J. Kovářík, F. Mengel, and J. G. Romero (2017). Natural
   disasters and indicators of social cohesion. *PloS one 12*(6).
- Flückiger, M., M. Ludwig, and A. Sina Onder (2019). Ebola and state legitimacy. *The Economic Journal* 129 (621), 2064–2089.
- Fong, E. and L.-y. Chang (2011). Community under stress: Trust, reciprocity, and community collective efficacy during sars outbreak. *Journal* of community health 36(5), 797–810.
- Gallup (2019). Wellcome global monitor first wave findings. Technical report.
- 623 Gilles, I., A. Bangerter, A. Clémence, E. G. Green, F. Krings, C. Staerklé,
- and P. Wagner-Egger (2011). Trust in medical organizations predicts pan-
- demic (h1n1) 2009 vaccination behavior and perceived efficacy of protec-
- tion measures in the swiss public. European journal of epidemiology 26(3),
- 627 203–210.

- 628 Giuffrida, A. and L. Cochrane (2020, Feb). Italy im-
- poses draconian rules to stop spread of coronavirus.
- 630 https://www.theguardian.com/world/2020/feb/23/
- italy-draconian-measures-effort-halt-coronavirus-outbreak-spread.
- 632 Kalimeri, K., M. G. Beiró, A. Bonanomi, A. Rosina, and C. Cattuto (2020).
- Traditional versus Facebook-based surveys: Evaluation of biases in self-
- reported demographic and psychometric information. Demographic Re-
- search 42(5), 133-148.
- Larson, H. J. (2016). Vaccine trust and the limits of information. Science 353(6305), 1207-1208.
- Larson, H. J. and D. L. Heymann (2010). Public health response to influenza a (h1n1) as an opportunity to build public trust. *Jama 303*(3), 271–272.
- Lehdonvirta, V., A. Oksanen, P. Räsänen, and G. Blank (2020). Social media,
   web, and panel surveys: Using non-probability samples in social and policy
   research. Policy & Internet.
- Luhmann, N. (1979). Trust and power. John Wiley & Sons.
- Nature (2017, May). Beware the anti-science label. *Nature* 545 (7653), 133–134.
- Observa Science in Society (2020, Apr). Gli italiani e il coronavirus: i nuovi dati dell'osservatorio. url=https://www.observa.it/gli-italiani-e-ilcoronavirus-i-nuovi-dati-dellosservatorio.
- Pew Research Center (2019). Trust and mistrust in americans' views of scientific experts. Technical report.
- Prati, G., L. Pietrantoni, and B. Zani (2011). Compliance with recommendations for pandemic influenza h1n1 2009: the role of trust and personal beliefs. *Health education research* 26(5), 761–769.
- Rotondi, V., L. Andriano, J. B. Dowd, and M. C. Mills (2020). Early evidence that social distancing and public health interventions flatten the covid-19 curve in italy. *OSF Preprints 26*.
- Shetty, P. (2010). Experts concerned about vaccination backlash. *The Lancet* 375 (9719), 970–971.
- Shupp, R., S. Loveridge, M. Skidmore, J. Lim, and C. Rogers (2017). Trust and patience after a tornado. Weather, climate, and society 9(4), 659–668.

- Siegrist, M. and G. Cvetkovich (2000). Perception of hazards: The role of 661 social trust and knowledge. Risk analysis 20(5), 713–720. 662
- Siegrist, M. and A. Zingg (2014). The role of public trust during pandemics. 663 European psychologist. 664
- van der Weerd, W., D. R. Timmermans, D. J. Beaujean, J. Oudhoff, and 665 J. E. van Steenbergen (2011). Monitoring the level of government trust, 666 risk perception and intention of the general public to adopt protective 667 measures during the influenza a (h1n1) pandemic in the netherlands. BMC 668 public health 11(1), 575. 669
- Vinck, P., P. N. Pham, K. K. Bindu, J. Bedford, and E. J. Nilles (2019). 670 Institutional trust and misinformation in the response to the 2018–19 ebola 671 outbreak in north kivu, dr congo: a population-based survey. The Lancet 672 Infectious Diseases 19(5), 529-536. 673
- Whetten, K., J. Leserman, R. Whetten, J. Ostermann, N. Thielman, 674 M. Swartz, and D. Stangl (2006). Exploring lack of trust in care providers 675 and the government as a barrier to health service use. American journal 676 of public health 96(4), 716-721. 677

(2019).

Organization

World

678

Health

director-general praises bravery of health workers during visit to east-679 republic following fatal attacks democratic of congo on  $\operatorname{ern}$ 680 ebola responders. https://www.who.int/news-room/detail/ 681 01-12-2019-who-director-general-praises-bravery-of-health-workers-during-visi 682

WHO

Zingg, A. and M. Siegrist (2012). Measuring people's knowledge about vaccination: developing a one-dimensional scale. Vaccine 30(25), 3771-3777. 684

## ${f Supplementary\ Information}$

687

688

715

716

717

719

720

721

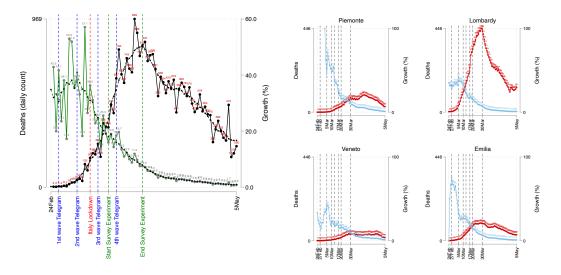
# S1 Coronavirus pandemic and containment measures adopted by the Italian government in the aftermath of the outbreak

On Friday 21st the first case of Coronavirus was discovered in a town lo-689 cated in the province of Lodi, in the region of Lombardy in northern Italy. 690 Almost simultaneously another Italian citizen from a small municipality in 691 the province of Padua, in the Veneto region, was found to be positive for 692 the Coronavirus. Two days later, on February 23, the government issued a 693 decree which prohibited the movement of people outside 10 municipalities 694 located in Lombardy and a municipality in Veneto, all indicated in red in 695 Figure S7. However, the decree did not have immediate implementation. 696 The control plan did not start rigidly, and checkpoints were not very effec-697 tive: in fact, there were numerous leaks towards other provinces and regions 698 in southern Italy. Law enforcement officers (at least 500 men) were deployed 699 two days later in order to avoid further leaks. Although cases in the province 700 of Bergamo began also to increase at an alarming rate, in contrast to Lodi, 701 no further shutdowns or restrictions were imposed. In the following days, 702 despite constant calls to limit travel and to adopt preventive measures such 703 as avoiding gatherings and enclosed spaces, many Italians took advantage of 704 the temporary closure of the schools decided by the government, to move to 705 the mountains or to the sea. From March the 8th the restriction to avoid any 706 movement was extented to the whole of Lombardy and to fourteen provinces 707 of Veneto, Emilia Romagna, Piedmont, and Marche. The decree, however, 708 was leaked by the press already in the late evening of March the 7th, gener-709 ating panic and once more substantial movement of people from the northern 710 regions towards the south. On March the 10th, a new decree of the Prime Minister Giuseppe Conte, extended these lockdown measures across the en-712 tire country of Italy until May the 4th when the country started a mild 713 reopening. 714

In the week that followed the discovery of the first case, Italy experienced a very rapid increase in the number of cases and deaths (See figure S1). This growth was uneven with the majority of cases (and deaths) being concentrated in the north of the country and, particularly, in Lombardy which roughly counts half of the total number of deaths (see right panel of Figure S1. As a yardstick, on February the 27th (the day of the first Telegram survey) the cumulative number of deaths amounted to 10. By the end of the fourth wave of the Telegram survey Italy had registered 4000 deaths.

Accordingly, at the beginning of the survey experiment (which took place entirely after the lockdown) Italy had witnessed more then 1000 deaths, by the end of the survey they were more than 11000.

Figure S1: Deaths Italy (left panel) and selected regions (right panel)



*Note:* Levels and Growth Rate (moving averages 7 days). Data are available at the following link: https://github.com/pcm-dpc/COVID-19

## 726 S2 Questionnaires

727

730

731

732

733

734

735

736

737

738

## S2.1 Continuous survey via Telegram

The following questions (translated from Italian) have been asked. Not all questions will be asked in all waves.

- Between 0 and 100, what do you estimate is the percentage of patients hospitalized in intensive care wards, among positive Coronavirus cases, in Italy? (Tra 0 e 100, quale stimi sia il tasso percentuale di ricoverati in terapia intensiva (tra i contagiati) in Italia?)
- Between 0 and 100, what do you estimate is the percentage of casualties, among positive Coronavirus cases, in Italy? (Tra 0 e 100, quale stimi sia il tasso percentuale di mortalità (tra i contagiati) in Italia?)
- Please indicate, with a number from 1 to 8, your desire to be informed concerning statements on the new Coronavirus...(Ti invito a indicare,

con un numero da 1 a 8, quanto desideri rimanere aggiornato sulle dichiarazioni riguardanti il nuovo Coronavirus...)

- ... from doctors and scientists (di medici e scienziati)
- ... from the government and local administrations (del governo e delle amministrazioni locali)
  - ... from international health institutions (WHO) (delle autorità sanitarie internazionali (OMS))
  - ...from famous persons from the show business and sports (di celebrità dello spettacolo e dello sport)

Participants were then asked to provide information on

- their age ("1-13", "14-29", "30-44", "45-64", "65 or more" ("65 o più"))
- their gender ("male ("maschio", "female" ("femmina"), "other/prefer not to say" ("altro/preferisco non dire"))
- level of studies ("primary/middle school" ("medie/elementari"), "higher school" ("diploma superiore"), "university degree" ("laurea"), "master or higher" ("post-laurea"))
- their ZIP code ("il suo CAP")

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

764

## S2.2 Survey Experiment via Facebook

Grazie per la tua partecipazione a questo progetto di ricerca. Sei stato invitato a partecipare ad una ricerca sulla tua percezione della scienza e degli
esperti. Questo studio è messo a punto e realizzato da Pietro Battiston (Università di Parma), Ridhi Kashyap (Università di Oxford e Nuffield College) e
Valentina Rotondi (Università di Oxford e Nuffield College) in collaborazione
con il Centro per le Scienze Sociali Sperimentali (CESS-Centre for Experimental Social Sciences) del Nuffield College e dell'Università di Oxford.

Durante questa ricerca, potremmo chiederti di rispondere ad alcune domande riguardanti le tue caratteristiche demografiche, il tuo orientamento politico, e la tua opinione su alcuni aspetti riguardanti la salute. Inoltre, ti saranno date alcune informazioni riguardanti la salute. La ricerca durerà circa 15 minuti. La tua partecipazione a questa ricerca è interamente volontaria. Potrai pertanto ritirare il tuo consenso ed uscire dalla ricerca in qualsiasi momento. Non inganniamo i partecipanti, qualsiasi promessa fatta ai soggetti nel corso dello studio sarà confermata dal ricercatore. Se completerai tutto

il sondaggio, riceverai il pagamento pari a 3.5 euro. La politica del CESS e i regolamenti IRB, prevedono che potremmo dover raccogliere il tuo nome, 774 indirizzo, codice fiscale e firma prima di darti il tuo compenso. 775 Riteniamo che non vi siano rischi noti associati a questa ricerca se non quelli 776 che potresti incontrare nella vita di tutti i giorni; tuttavia, come per qualsiasi attività online, il rischio di violazione è sempre possibile. A questo scopo 778 faremo tutto il possibile affinché la tua partecipazione a questa ricerca ri-779 manga confidenziale. I dati che pubblicheremo saranno solo dati anonimi 780 e faremo del nostro meglio per mantenere riservate le tue informazioni. La 781 protezione dei dati è in linea con il regolamento generale sulla protezione dei 782 dati, i ricercatori avranno accesso solo a dati anonimizzati, i dati resi anonimi 783 saranno accessibili solo al CESS e saranno archiviati in un database sicuro dopo il pagamento. Inoltre, tali dati personali non verranno mai ceduti a 785 terzi se non nella misura richiesta dalla legge. I risultati di questo studio 786 saranno utilizzati a scopi accademici. 787

In caso di domande sulla ricerca, contattaci sul nostro indirizzo email: cessonline@nuffield.ox.ac.uk oppure contatta Valentina Rotondi all'indirizzo: valentina.rotondi@sociol
Se vuoi avere ulteriori informazioni sul trattamento etico dei nostri dati visita
il sito: https://www.youtube.com/watch?v=nkPA3fb6K84& feature=youtu.be
Questa ricerca è stata approvata secondo le procedure CESS IRB per la
ricerca su soggetti umani.

Ho letto le informazioni sopra. Cliccando su "si" dichiaro che ho compreso quello che ho letto sopra e confermo la mia partecipazione a questo studio.

• Si (Yes)

788

• No (No)

Thank you for your participation in this research project. You are being invited to participate in a research study about you perceptions about science and experts. This study is being done by Pietro Battiston (University of Parma), Ridhi Kashyap (University of Oxford and Nuffield College) and Valentina Rotondi (University of Oxford and Nuffield College) in collaboration with the Centre for Experimental Social Sciences (CESS), Nuffield, the University of Oxford.

During the course of the study, we may ask about, demographics, political 806 ideology, and your opinion on various health-related matters. In addition, 807 you may be provided with information on various health related topics. The 808 research study will take you approximately 15 minutes to complete. Your 809 participation in this study is entirely voluntary and you may withdraw at 810 any time from this study. We do not deceive participants, any promise made 811 to subjects during the course of the study will be upheld by the researcher. 812 If you complete the survey, you will receive your payment amounting to 3.5 813 euros. Due to CESS policy and IRB regulations, we may have to collect your 814 name, address, fiscal code, and signature in order to give you this compen-815 sation. 816

We believe there are no known risks associated with this research study other 817 than those encountered in everyday life; however, as with any online related 818 activity the risk of a breach is always possible, to the best of our ability your 819 participation in this study will remain confidential, and only anonymised data 820 will be published. We will do our best to keep your information confidential. 821 Data protection is in line with GDPR, researchers will only have access to 822 anonymized data, deanonymized data will only be accessible by CESS and 823 will be stored in a safe database after payment is complete. Also, that 824 personal data will never be given to a third party except to the extent required 825 by law. The results of this study will be used for scholarly purposes. 826

If you have any questions about the research study, please contact cess-online@nuffield.ox.ac.uk or Valentina Rotondi valentina.rotondi@sociology.ox.ac.uk

You could go to https://www.youtube.com/watch?v=nkPA3fb6K84& feature=youtu.be to watch our Ethics Video. This research has been reviewed according to CESS IRB procedures for research involving human subjects.

I have read the information above. I affirm by hitting yes below that I understand what I have read above and still agree to participate in this study.

```
Do you agree the above content?
       YES NO
836
       Display This Question:
837
       If Ho letto le informazioni sopra. Cliccando su "si" dichiaro che ho compreso quello
838
    che\ ho\ letto\ so...\ = Si
839
       Sesso (Gender)
840
       Maschio (Male)
841
       Femmina (Female)
842
       Età in anni compiuti (Age in completed years)
844
       Stato civile (Marital status)
845
       Celibe/nubile
       Coniugato/a
847
       Convivente
848
       Separato/a o Divorziato/a
849
       Vedovo/a
850
       Titolo di studio (Education)
851
       Dottorato di ricerca
       Laurea magistrale/specialistica
853
       Laurea Triennale
854
       Diploma
855
       Licenza media
856
       Licenza Elementare
857
       Nessun Titolo
858
       Condizione lavorativa (Employment status)
859
       Occupato
860
       Disoccupato
861
       Casalingo/a
862
       Studente
863
       Inabile al lavoro
       Pensionato
865
       Altro
866
       Hai figli? (Do you have children?)
```

867

```
Si
No

No

Quant'è il 20% di 100? (How much is 20% of 100?)
Il 20% di 100 è: ______
Non lo so

Su una scala da 0 a 10, quanto sei d'accordo con questa affermazione:
On a scale from 0 to 10, how much do you agree with the following
statement:
```

	0	1	2	3	4	5	6	7	8	9	10
Anche i giovani sono a rischio di contrarre											
il Coronavirus. (Are younger people also at	1										
risk of contracting the Coronavirus?)						-					

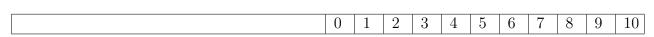
BEGINNING OF TREATMENT RANDOMIZATION. NOTICE THAT ONLY ONE OF THE TWO POSSIBILITIES IS SHOWN. IN THE ENGLISH TRANSLATION THE OMITTED SENTENCE IS INDICATED IN **BOLD**. NOTICE ALSO THAT, IF THE FIRST TREATMENT CONTAINS A REFERENCE TO THE SOURCE, THEN ALL OTHER SENTENCES CONTAIN THE REFERENCE TOO.

"Cosi come riportato dall'Istituto Superiore di Sanità, le persone anziane e quelle con condizioni mediche preesistenti sembrano essere soggette a manifestazioni cliniche più gravi a seguito di infezione da nuovo Coronavirus. Tuttavia, possono essere infettate dal virus (e contrarre malattie) persone di tutte le età"

"Le persone anziane e quelle con condizioni mediche preesistenti sembrano essere soggette a manifestazioni cliniche più gravi a seguito di infezione da nuovo Coronavirus. Tuttavia, possono essere infettate dal virus (e contrarre malattie) persone di tutte le età"

"As reported by the Italian Institute for Public Health, older people and those with pre-existing medical conditions seem to be subject to

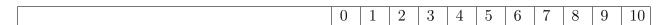
- more serious clinical manifestations following infection with the new Coronavirus. However, people of all ages can be infected with the virus (and contract disease)"
- Dopo aver letto l'informazione precedente, vorresti correggere la tua risposta?
- Si
- No
- Display This Question:
- 900 If Dopo aver letto l'informazione precedente, vorresti correggere la tua risposta? = Si
- Su una scala da 0 a 10, quanto sei d'accordo con questa affermazione:
- On a scale from 0 to 10, how much do you agree with the following statement:



Anche i giovani sono a rischio di contrarre il Coronavirus. (Are younger people also at risk of contracting the Coronavirus?)



- Su una scala da 0 a 10, quanto ritieni che:
- On a scale from 0 to 10, how much do you think that:



Gli antibiotici siano utili per prevenire l'infezione da nuovo Coronavirus (Antibiotics are helpful in preventing the new Coronavirus infection)



"Gli esperti del Ministero della Salute dichiarano che: gli an-907 tibiotici non sono efficaci contro i virus, ma funzionano solo contro le 908 infezioni batteriche" 909 "Gli antibiotici non sono efficaci contro i virus, ma funzionano solo 910 contro le infezioni batteriche" 911 "Ministry of Health experts say: antibiotics are not effective against 912 viruses, but only work against bacterial infections" 913 Dopo aver letto l'informazione precedente, vorresti correggere 914 la tua risposta? (Given the previous information, do you want to 915 correct your answer?) 916 • Si 917 No 918 Display This Question: 919 If Dopo aver letto l'informazione precedente, vorresti correggere la tua risposta? = 920 921 Su una scala da 0 a 10, quanto ritieni che: 922 On a scale from 0 to 10, how much do you think that: 923 0 2 3 4 6 9 10

Gli antibiotici siano utili per prevenire	
l'infezione da nuovo Coronavirus	_
(Antibiotics are helpful in preventing the	
new Coronavirus infection)	•
,	

Su una scala da 0 a 10, quanto ritieni che:

925

On a scale from 0 to 10, how much do you think that:

0	1	2	3	4	5	6	7	8	9	10

Sia sicuro ricevere pacchi dalla Cina o da altri paesi dove il virus è stato identificato (It is safe to receive parcels from China or other countries where the virus has been identified)



- "L'Organizzazione Mondiale della Sanità (OMS) ha dichiarato che le persone che ricevono pacchi non sono a rischio di contrarre il nuovo Coronavirus, perché non è in grado di sopravvivere a lungo sulle superfici."
- "Le persone che ricevono pacchi non sono a rischio di contrarre il nuovo Coronavirus, perché non è in grado di sopravvivere a lungo sulle superfici."
- "The World Health Organization declared that people who receive
   parcels are not at risk of contracting the new Coronavirus because the virus
   does not survive on surfaces for long."
- Dopo aver letto l'informazione precedente, vorresti correggere la tua risposta?
- 938 Si

926

927

928

929

- 939 No
- Display This Question:
- If Dopo aver letto l'informazione precedente, vorresti correggere la tua risposta? = Si

Su una scala da 0 a 10, quanto ritieni che:

943

944

945

946

947

948

949

950

951

952

953

954

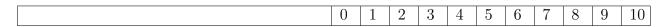
955

956

957

958

On a scale from 0 to 10, how much do you think that:



Sia sicuro ricevere pacchi dalla Cina o da altri paesi dove il virus è stato identificato (It is safe to receive parcels from China or other countries where the virus has been identified)



Su una scala da 0 a 10, quanto pensi che:

On a scale from 0 to 10, how much do you think that:

0	1	2	3	4	5	6	7	8	9	10

Il lavaggio delle mani serva veramente per prevenire l'infezione da Coronavirus (Washing hands is really useful in preventing the Coronavirus infection)



"Secondo gli esperti dell'Istituto Superiore di Sanità, il lavaggio e la disinfezione delle mani sono la chiave per prevenire l'infezione. Bisogna lavarsi le mani spesso e accuratamente con acqua e sapone per ameno 20 secondi (meglio 40-60). Se non sono disponibili acqua e sapone, è possibile utilizzare anche un disinfettante per mani a base di alcol con almeno il 60% di alcol. Il virus entra nel corpo attraverso gli occhi, il naso e la bocca, quindi evita di toccarli con le mani non lavate."

"Il lavaggio e la disinfezione delle mani sono la chiave per prevenire l'infezione. Bisogna lavarsi le mani spesso e accuratamente con acqua e sapone per ameno 20 secondi (meglio 40-60). Se non sono disponibili acqua e sapone, è possibile utilizzare anche un disinfettante per mani

a base di alcol con almeno il 60% di alcol. Il virus entra nel corpo 959 attraverso gli occhi, il naso e la bocca, quindi evita di toccarli con le 960 mani non lavate" 961 "According to the National Institute for Public Health experts 962 hand washing and disinfection are the key to preventing infection. You must 963 wash your hands often and thoroughly with soap and water for at least 20 964 seconds (better 40-60). If soap and water are not available, an alcohol-based 965 hand sanitizer with at least 60% alcohol can also be used. The virus enters 966 the body through the eyes, nose and mouth, so avoid touching them with 967 unwashed hands." 968 Dopo aver letto l'informazione precedente, vorresti correggere la tua 969 risposta? 970 Si 971 No 972 Display This Question: 973 If Dopo aver letto l'informazione precedente, vorresti correggere la tua risposta? = 974 Si975

0	1	2	3	4	5	6	7	8	9	10

Il lavaggio delle mani serva veramente per prevenire l'infezione da Coronavirus (Washing hands is really useful in preventing the Coronavirus infection)

Su una scala da 0 a 10, quanto pensi che:

On a scale from 0 to 10, how much do you think that:

976

977

978



#### END OF TREATMENT RANDOMIZATION.

Su una scala da 0 a 100, quanto ti fidi: On a scale from 0 to 100, how much do you trust:

0	10	20	30	40	50	60	70	80	90	100

Della scienza (Science)	
	•
Del governo nazionale (the National Gov-	
ernment)	
Del governo regionale (the Regional Gov-	
ernment)	_
Dell'Istituto Superiore di Sanità (The Na-	
tional Institute for Public Health)	

Quanto è importante per te per contenere la diffusione del virus: In order to reduce the spread of the virus, how it is important in your opinion to:

0	1	2	3	4	5	6	7	8	9	10

Ridurre gli spostamenti delle persone fisiche anche se non sono risultate positive al virus (Reduce the movement of individuals even if they have not tested positive for the virus)  L'isolamento domiciliare per chi è risultato positivo al virus (Home isolation for those who tested positive for the virus)	
Che le persone anziane evitino di uscire dalla propria abitazione (That older people avoid leaving their homes)	

Quando si discutono questioni politiche la gente di solito parla di sinistra e destra. In generale, come ti classificheresti lungo questa scala?

In political matters, people talk of "the left" and "the right." How would you place your views on this scale, generally speaking?

Sin	istra	a			]	Dest	ra			
0	1	2	3	4	5	6	7	8	9	10
					U					

Indica il codice di avviamento postale del comune in cui risiedi abitualmente (CAP) (ZIP code)

#### INFORMATION FOR PAYMENT

987

988

989

990 991

992

999

1000

1001

1002

1003

1004

Le informazioni che ti abbiamo dato sono diffuse dal Ministero della
Salute e dall'Istituto Superiore di Sanità. Ti consigliamo di consultare
le sezioni relative al nuovo Coronavirus del sito del Ministero della
Salute (http://www.salute.gov.it/portale/malattieInfettive/homeMalattieInfett
jsp) e del sito dell'Istituto Superiore di Sanità (https://www.epicentro.
iss.it/Coronavirus/faq)

These information are retrived from the Ministry of Health and from the Institute for Public Health. We advise to see the section relative to Coronavirus on their websites (http://www.salute.gov.it/portale/malattieInfettive/homeMalattieInfettive.jsp and https://www.epicentro.iss.it/Coronavirus/faq)

Grazie per aver partecipato alla nostra ricerca!

# NOOS S3 Results

## S3.1 Twitter

Table S1: Summary statistics

Variable	Mean	Std. Dev.	Min.	Max.
# of mentions: scientists	0.009	0.114	0	3
# of mentions: politicians	0.069	0.358	0	8
# of mentions: media	0.042	0.243	0	4
# of mentions: authorities	0.024	0.172	0	4
# of mentions: health authorities	0.013	0.119	0	2
# of mentions: other	0.024	0.176	0	3
Weighted cases count (unif.)	0.477	0.275	0	0.954
N		10336		

Table S2: Summary statistics: Retweets

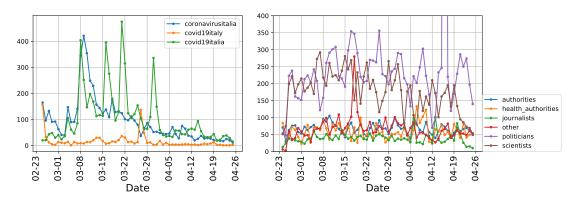
Variable	Mean	Std. Dev.	Min.	Max.
Authorities	0.092	0.289	0	1
Health authorities	0.081	0.272	0	1
Journalists	0.055	0.228	0	1
Media	0.015	0.12	0	1
Other	0.092	0.289	0	1
Politicians	0.299	0.458	0	1
Scientists	0.257	0.437	0	1
N		37024		

Table S3: Evolution of trust in science over time and space

	(1)	(2)	(3)	٦	(5)	(9)	(2)	(8)	(6)		<u>=</u>	(12)	(13)	(14)	(12)	(16)	(17)	(18)
	# of m	entions: scie.	ntists	II-	ntions: polic	ticians	ö	nentions: m	edia		ntions: auth	orities	# of mentic	ns: health a	authorities	Jo #	f mentions: ot	ıer
	b/se b/se b/se	b/se	p/se	ā,	se p/se p/	p/se	p/se	b/se	b/se	b/se	b/se	b/se	b/se p/se	p/se	p/se	p/se	p/se	p/se
Time	-0.000	-0.000	0.002***	1	0.001	-0.007**		-0.000	0.003**		0.001***	-0.003**	+100.0-	0.000	-0.002*	*1000	+100.0	0.000
	(0.000)	(0.000)	(0.001)		(0.001)	(0.002)		(0.000)	(0.001)		(0.000)	(0.001)	(0.000)	(0.000)	(0.001)	(0.000)	(0.000)	(0.001)
Time × Time	0.000		-0.000***	_		0.000***			+000.0-			0.000***	0.000***		0.000**	-0.000		0.000
	(0.000)		(0.000)	(0.000)		(0.000)	(0.000)		(0.000)	(0.000)		(0.000)	(0.000)		(0.000)	(0.000)		(0.000)
Weighted cases count (unif.)	0.001	-0.005	0.028	-0.019	-0.089**	-0.018	-0.022*	-0.085***	+090.0	-0.010		0.049*	$-0.012^{+}$	-0.036***	0.028	-0.006	0.021	0.001
	(0.006)	(0.010)	(0.018)	(0.018)	(0.029)	(0.055)	(0.011)	(0.019)	(0.031)	(0.010)		(0.021)	(0.006)	(0.010)	(0.017)	(0.00)	(0.013)	(0.025)
total	0.020***	0.020***	0.020***	0.130***	0.130***	0.130***	0.072***	0.072***	0.072***	0.048***		0.048***	0.019***	0.019***	0.019***	0.046***	0.046***	0.046***
	(0.005)	(0.005)	(0.005)	(0.013)	(0.013)	(0.013)	(0.008)	(0.008)	(0.008)	(0.006)		(0.006)	(0.003)	(0.003)	(0.003)	(0.005)	(0.005)	(0.002)
Latitude	-0.000		-0.000	-0.004**		-0.004**	-0.004***		-0.004***	-0.004***		-0.004***	-0.003***		-0.003***	0.001		0.001
	(0.000)		(0.000)	(0.001)		(0.001)	(0.001)		(0.001)	(0.001)		(0.001)	(0.000)		(0.000)	(0.001)		(0.001)
Time $\times$ Weighted cases count (unif.)		0.000	-0.004**		0.003*	0.005		0.003***	-0.010***			-0.001		0.001*	-0.001		-0.001**	0.000
		(0.000)	(0.001)		(0.001)	(0.004)		(0.001)	(0.003)		(0.001)	(0.002)		(0.000)	(0.001)		(0.000)	(0.002)
Weighted cases count (unif.) $\times$ Time $\times$ Time			0.000***			+0000-			0.000***			+0.00.0-			-0.000			-0.000
			(0.000)			(0.000)			(0.000)			(0.000)			(0.000)			(0.000)
Constant	0.021	+900.0	0.004	0.204***	0.014	0.235***	0.196***	0.025***	0.160***	0.154***	-0.016**	0.167***	0.139***	0.003	0.143***	-0.040	-0.000	-0.035
	(0.018)	(0.003)	(0.018)	(0.060)	(0.013)	(0.060)	(0.042)	(0.007)	(0.040)	(0.032)		(0.032)	(0.020)	(0.004)	(0.021)	(0.032)	(900.0)	(0.032)
N.	10336.000	000336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	10336.000	.0336.000
$R^2$	0.038	0.038	0.040	0.174	0.172	0.174	0.116	0.114	0.117	0.107	0.104	0.109	0.044	0.039	0.046	0.084	0.084	0.084

Note: OLS. Standard errors robust to heteroskedasticity reported in parentheses. Covariates as described in Table S7. + p < 0.10, \*p<0.05 , \* p<0.01, \* p<0.010

Figure S2: Distribution of Twitter samples over time



*Note:* distribution over time of tweets used to analyze mentions (left) and retweets (right). Not shown in right panel: outlier value of 2735 for category "politicians" on April 16, entirely attributable to a single account.

Table S4: Evolution of retweets over time

	(1)	(2)	(3)	(4)	(5)	(6)
	Scientists	Authorities	Health Authorities	Media	Politicians	Other
	b/se	b/se	b/se	b/se	b/se	b/se
time	1.460**	4.836***	32.315***	-0.041	-0.712	2.184
	(0.561)	(1.004)	(7.730)	(0.188)	(0.631)	(1.427)
$time \times time$	-0.037***	-0.096***	-0.691***	0.001	0.020	-0.025
	(0.011)	(0.021)	(0.157)	(0.002)	(0.013)	(0.027)
total	0.000	0.000	0.003*	0.000	0.000	-0.000
	(0.000)	(0.000)	(0.001)	(0.000)	(0.000)	(0.000)
Constant	26.452***	20.380*	-95.672	2.248	70.725***	$24.321^{+}$
	(6.826)	(9.714)	(89.673)	(3.691)	(7.230)	(13.854)
N.	8606.000	3409.000	2676.000	537.000	11058.000	3412.000
$R^2$	0.002	0.004	0.012	0.004	0.001	0.001
OT C C	1 1	1 .	1 1	1 .	.1 0	

OLS. Standard errors robust to heterosked asticity reported in parentheses. Covariates as described in Table S7. + p < 0.10, \* p < 0.05, \* p < 0.01, \* p < 0.001

#### $_{07}$ S3.2 Telegram

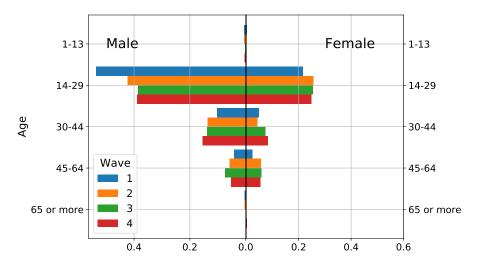


Figure S3: Distribution of Telegram respondents across age ranges and genders

Figure 3 shows the unbalanced analysis of changes of interest in different categories of information sources across waves; the equivalent balanced analysis is displayed in Figure S5. Both figures clearly show that interest in all sources of information is increasing from wave to wave except for the category "famous persons from the show business and sports", and that these changes are statistically significant. Minor differences between the unbalanced and balanced version are likely due to two main phenomena. On one hand, the sample changed significantly across waves (in turn a consequence of the huge increase in the popularity of the Telegram channel) On the other hand, it was not always possible to track participants across waves: in particular, in wave 4 participants filled the survey outside the Telegram app and had the possibility to not being matched to their responses in previous waves.

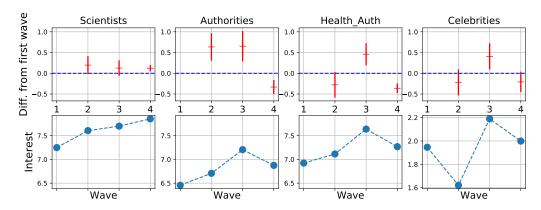
The fourth and last wave of the Telegram survey included a simplified version of the survey experiment: subjects were randomly sent (via personalized links) to one out of two versions of the survey. In both versions of the survey, respondents were asked to answer the question "Are younger people also at risk of contracting the Coronavirus?" by picking an answer from 0 to 10 after reading the text of the ISS information about all age categories being at risk: but while in one version ISS was cited as source, in the other version no source was provided.

In both versions of the survey, 10 was the most chosen option, but it was chosen more frequently (77.5% vs. 75.6%) when the source of the state-



Figure S4: Geographic distribution of Telegram respondents

Figure S5: Longitudinal evidence from Telegram survey – balanced samples



*Note:* equivalent of Figure 3 reducing to recurring respondents. Top: differences across waves computed on subsamples of participants who were tracked across the two consecutive waves. Bottom: averages across waves computer for all participants tracked across any two consecutive waves.

Table S5: Evolution of willingness to receive information from different sources over time

	Scientists	Authorities	Health Auth	Celebrities	experts
Intercept	6.807***	6.280***	6.647***	3.105***	2.034***
	(0.256)	(0.251)	(0.246)	(0.327)	(0.237)
Wave 2	$0.241^{'}$	$0.230^{'}$	0.449	-0.911**	0.685**
	(0.401)	(0.413)	(0.309)	(0.388)	(0.280)
Wave 3	0.856***	$0.450^{'}$	0.911***	-0.340	0.829**
	(0.272)	(0.469)	(0.264)	(0.456)	(0.415)
Wave 4	0.817***	0.767***	0.645*	-0.908**	0.801***
	(0.277)	(0.288)	(0.273)	(0.357)	(0.254)
Observations	8872	8872	8872	8872	8872
R2	0.060	0.029	0.041	0.033	0.046

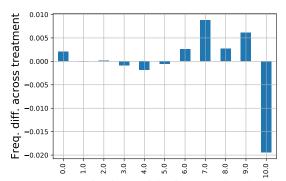
Note: OLS. Robust standard errors reported in parenthesis. "Experts" is defined as the difference between the average reply to scientists and health authorities and the average interest to authorities and celebrities. See section M5 for a description of the model and section S2.1 for a description of the exact wording of the questions and of the sampling strategy.

Table S6: Evolution of willingness to receive information from different sources over time and space

	Scientists	Authorities	HealthAuth	Celebrities	experts
Intercept	9.729***	$5.727^{*}$	7.409***	4.565	$3.422^{*}$
	(2.125)	(3.285)	(2.187)	(3.163)	(1.860)
lat	-0.062	0.015	-0.007	-0.052	-0.016
	(0.052)	(0.079)	(0.054)	(0.073)	(0.042)
wave	-0.039	0.058	-0.008	0.291	-0.198
	(0.089)	(0.316)	(0.261)	(0.211)	(0.131)
wcc	0.889**	0.409	0.173	-0.837	0.745
	(0.390)	(1.145)	(0.890)	(0.719)	(0.488)
Observations	3592	3592	3592	3592	3592
R2	0.024	0.010	0.001	0.020	0.010

Note: OLS. Robust standard errors reported in parenthesis. "Experts" is defined as the difference between the average reply to scientists and health authorities and the average interest to authorities and celebrities. Weighted cases count (wcc) is the percentile of the number of cases per province at date of interview, weighted by the inverse of the distance from each province. See section M5 for a description of the model and section S2.1 for a description of the exact wording of the questions and of the sampling strategy.

Figure S6: Frequency of replies in Telegram experiment: difference across treatment



Are younger people also at risk of contracting the coronavirus?

ment was *not* mentioned, consistently with results from the Facebook Ad experiment: Figure S6 shows that most of the difference is explained by respondents who chose a number between 6 and 9, rather than 19. However, when regressing the choice of 10 as response over the treatment selection (controlling for standard demographics – age, gender, level of studies), we obtain that the difference is only marginally significant (p = 0.10).

### S3.3 Facebook

#### S3.4 Sampling Strategy

We administered to Facebook users residing in 15 provinces in Lombardy<sup>14</sup> and Veneto<sup>15</sup>, two regions located in northern Italy, a pre-registered survey and a survey experiment. We specifically targeted two early outbreak areas which were quarantined since February 21st (including 10 municipalities in Lombardy and 1 in Veneto), as well as municipalities bordering with these initial outbreak municipalities for a total of 66 municipalities (46 in Lombardy and 20 in Veneto). We then separately targeted an area in the province of Bergamo (BG) which has been severely affected by the epidemic (Buonanno et al., 2020) and the municipalities bordering this area for a total of 32 municipalities. Figure S7 provides a visual representation of those early outbreak municipalities. For a description of the early outbreak Italian areas and a discussion on the differential policies implemented by the Italian government in each of them see Rotondi et al. (2020). The geographical

<sup>&</sup>lt;sup>14</sup>Lodi (LO), Cremona (CR), Mantova (MN), Brescia (BS), Bergamo (BG), Lecco (LC), Monza and Brianza (MB), Milano (MI), and Pavia (PV).

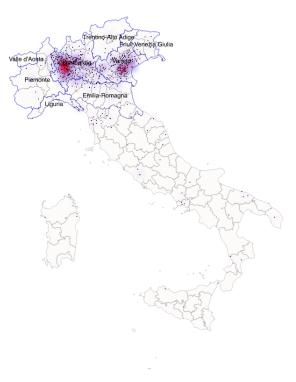
<sup>&</sup>lt;sup>15</sup>Verona (VR), Vicenza (VI), Treviso (TV), Venezia (VE), Rovigo (RO), and Padova (PD).

targeting worked well. Nevertheless, we unwittingly recruited a sample of
 respondents even outside the initially targeted areas, as shown in Figure S8.
 Participants in the online survey were offered a modest payment.

Figure S7: Sampling strategy: Regions in Northern Italy

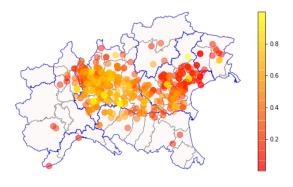


Figure S8: Actual responses: Italy



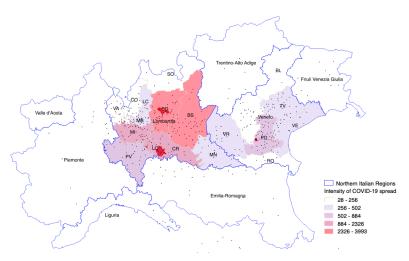
 $\it Note:$  Every point corresponds to a respondent. Data have been geolocalized based on respondents' ZIP codes. The brighter the red the higher the number of respondents.

Figure S9: Weighted cases count (wcc) of respondents



 $\it Note:$  Every point corresponds to a respondent. Data have been geolocalized based on respondents' ZIP codes. Colors corresponds to percentiles in the wcc distribution.

Figure S10: Number of cases tested positive for COVID-19 by province in Lombardy and Veneto as for March,  $17\ 2020$ 



Note: Every point corresponds to a respondent. Data have been geolocalized based on respondents' ZIP codes. Province-level data on cases for Lombardy and Veneto tested positive for COVID-19 are available at the following link: <a href="https://github.com/pcm-dpc/COVID-19">https://github.com/pcm-dpc/COVID-19</a>

## 1054 S3.5 Results

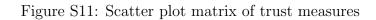
Table S7: Summary statistics

Variable	Mean	Std. Dev.	Min.	Max.	
Outcomes	1110011	Star Berr	1,1111	1,10,11	
Younger people are also at risk of contracting the Coronavirus	9.194	1.52	1	10	994
Antibiotics are helpful in preventing the new Coronavirus infection	1.51	2.262	0	10	810
It is safe to receive parcels from China	8.528	2.114	0	10	984
Washing hands is really useful in preventing the Coronavirus infection	9.282	1.23	1	10	990
Wrong: Youths	0.321	0.467	0	1	994
Wrong: Antibiotics	0.469	0.499	0	1	810
Wrong: Parcels	0.403	0.433	0	1	984
Wrong: Hands	0.36	0.48	0	1	990
Social distancing: non-positive	9.231	1.509	0	10	984
Isolation: positive	9.231	0.676	0	10	986
±			0	10	984
Social distancing: elderly Trust	9.595	1.154	U	10	984
Trust: National Inst. Pub. Health	05.022	16.299	0	100	985
	85.933				
Trust: regional government	62.686	24.3	0	100	980
Trust: national government	63.562	23.119	0	100	977
Trust: science	93.36	10.378	12	100	987
Trust: Robustness					
Trust science (avg)	89.704	11.629	20.5	100	986
Trust politicians (avg)	63.13	20.839	0	100	978
Information: Expert					
Info: experts	0.494	0.5	0	1	995
Willing to update (if wrong)					
Willing to update: Youths	0.129	0.335	0	1 319	
Willing to update: Antibiotics	0.342	0.475	0	1	380
Willing to update: Parcels	0.168	0.374	0	1	507
Willing to update: Hands	0.09	0.286	0	1	357
Covariates					
Single	0.602	0.49	0	1	994
Married	0.2	0.4	0	1	994
Cohabitation	0.148	0.355	0	1	994
Divorced	0.047	0.212	0	1	994
Widow	0.003	0.055	0	1	994
Secondary	0.318	0.466	0	1	994
PHD	0.046	0.21	0	1	994
Bachelor	0.248	0.432	0	1	994
Master	0.359	0.48	0	1	994
Lower Secondary	0.028	0.166	0	1	994
Other	0.032	0.177	0	1	994
Housewife	0.019	0.137	0	1	994
Unemployed	0.133	0.34	0	1	994
Employed	0.5	0.5	0	1	994
Retired	0.019	0.137	0	1	994
Student	0.019	0.157	0	1	994
Math skills	0.297	0.437	0	1	979
Has children	0.905	0.103	0	1	994
Gender			0	1	994
	0.345	0.476		$\frac{1}{74}$	
Age	32.87	11.616	18		993
Distance from outbreak areas	128.407	95.257	69.531	932.398	994
Outbreak areas	0.077	0.267	0	1	994

Table S8: Randomization

	(1)	(2)
	Info: experts	Info: experts
	b/se	b/se
Trust: science	0.000	-0.000
	(0.002)	(0.002)
Trust: national government	0.001	0.001
	(0.001)	(0.001)
Trust: regional government	0.000	0.001
	(0.001)	(0.001)
Trust: National Inst. Pub. Health	0.000	0.000
Gender	(0.001)	$(0.001) \\ 0.014$
Gender		(0.036)
Age		-0.001
1180		(0.002)
Secondary		-0.053
<b>,</b>		(0.115)
Bachelor		-0.012
		(0.117)
Master and Higher		-0.023
		(0.116)
Married		-0.071
		(0.067)
Cohabitation		-0.010
Divorced		(0.053)
Divorced		-0.052 (0.093)
Widow		0.260
Widow		(0.252)
Has children		0.030
		(0.059)
Housewife		0.269*
		(0.135)
Other		0.155
P 1 1		(0.106)
Employed		0.036
Retired		(0.055) -0.088
Retired		(0.144)
Student		-0.010
South		(0.060)
Math skills		0.155 <sup>+</sup>
		(0.085)
LR scale		0.000
		(0.008)
Outbreak areas		-0.085
		(0.068)
Lombardy		0.006
V		(0.054)
Veneto		-0.020
Latitude		(0.057) -0.009
Danitude		(0.024)
Constant	0.319*	0.702
	(0.150)	(1.077)
N.	978	930
$R^2$	0.007	0.023

OLS. Robust standard errors reported in parentheses. Covariates as described in Table S7. + p < 0.10, \* p < 0.05 , \* p < 0.01, \* p < 0.001



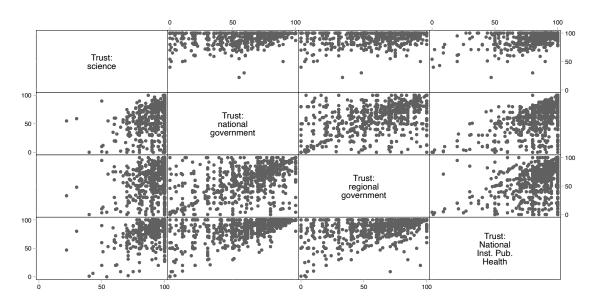


Table S9: Cross-correlation table between trust measures

Variables	Pub. Health	Reg. Gov.	Nat. Gov.	Science
Trust: National Inst. Pub. Health	1.0000			
Trust: regional government	0.4176	1.0000		
	(0.0000)			
Trust: national government	0.5510	0.5443	1.0000	
	(0.0000)	(0.0000)		
Trust: science	0.5369	0.2247	0.3290	1.0000
	(0.0000)	(0.0000)	(0.0000)	

Figure S12: Reception of public health messages on the importance of social distancing and the isolation of positive cases by Italian respondents (weighted)

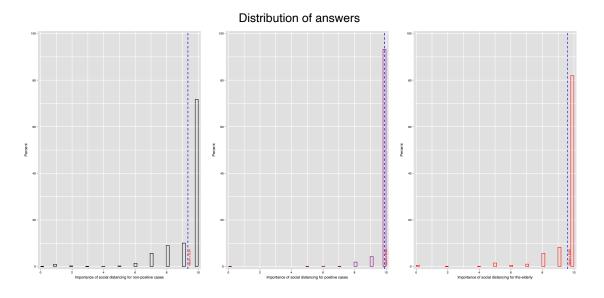
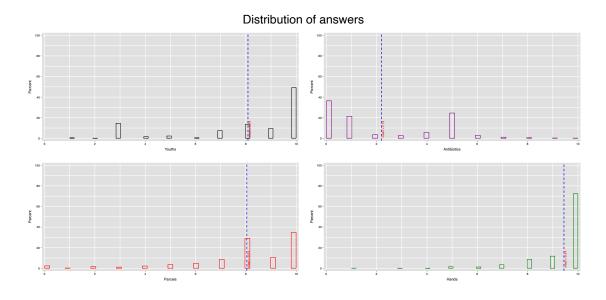


Figure S13: Knowledge of coronavirus-related questions by Italian respondents (weighted)



#### **Tables** The following tables show:

1055

- S10 The relationship between trust and perceived importance of social distancing measures. Observations are weighted to conform to the national population.
- 1059 S11 The relationship between trust and perceived importance of social dis-1060 tancing measures. Observations are weighted. It includes a continuous 1061 variable for distance from outbreak areas instead of a dummy.
- S12 The relationship between trust and perceived importance of social distancing measures. Observations are not weighted.
- S13 The relationship between trust and perceived importance of social distancing measures. Observations are not weighted. Trust in science is the average between trust in science and trust in the Italian institute for public health. Trust in politicians is the average between trust in regional and national government.
- The relationship between trust and perceived importance of social distancing measures. Observations are not weighted. It includes the measures of trust in different models: trust in the Italian institute for public health (column 1), trust in regional government (column 2), trust in national government (column 3), trust in science (column 4) and all measures of trust (column 5). Note that the coefficient for trust in science is greater than the coefficient for any other trust measure.
- S15 The relationship between trust and wrong beliefs. Observations are weighted to conform to the national population.
- S16 The relationship between trust and wrong beliefs. Observations are not weighted.
- S16 The relationship between trust and wrong beliefs. Observations are not weighted.
- S17 The relationship between trust and wrong beliefs. Observations are not weighted. It includes a continuous variable for distance from outbreak areas instead of a dummy.
- S18 The relationship between trust and wrong beliefs. Observations are not weighted. Trust in science is the average between trust in science and trust in the Italian institute for public health. Trust in politicians is the average between trust in regional and national government.

- S19 The relationship between trust and wrong beliefs measured on a scale from 0 to 10 as in the original questionnaire. Observations are not weighted.
- S20 The relationship between trust and wrong beliefs. Observations are not weighted. It is estimated by Logit and marginal effects are reported.
- 1094 S21 The relationship between holding wrong beliefs and support for containment measures. Holding wrong beliefs is measured with a dummy taking value 1 if the respondent has been at least wrong across the 4 treatment questions. Observations are weighted to conform to the national population.

1099

1100

1101

1102

1103

- S22 The relationship between holding wrong beliefs and support for containment measures. Holding wrong beliefs is measured as the sum of the distance from the correct answer (0 or 10) across the 4 treatment questions. Observations are weighted to conform to the national population.
- S23 The treatment effect: i.e., receiving information for experts and willingness to update beliefs (when wrong). Observations are weighted to
  conform to the national population.
- S24 The treatment effect: i.e., receiving information for experts and willingness to update beliefs (when wrong). Observations are not weighted.
- 1109 S25 The treatment effect: i.e., receiving information from experts and will1110 ingness to update beliefs (when wrong). Observations are not weighted.
  1111 It includes a continuous variable for distance from outbreak areas in1112 stead of a dummy.
- 1113 S26 The treatment effect: i.e., receiving information from experts and will1114 ingness to update beliefs (when wrong). Observations are weighted
  1115 to conform to the national population. It is estimated by Logit and
  1116 marginal effects are reported.
- S27 The interaction between receiving information from experts and a) science (columns 1–4), b) distance from outbreak areas (columns 5–8).

  Observations are weighted to conform to the national population.
- 1120 S27 The relationship between trust and perceived importance of social dis-1121 tancing measures. It restricts the sample only to Lombardy and uses 1122 cumulative number of total cases tested positive for coronavirus at the

- municipality level instead of distance from outbreak areas. Observations are weighted.
- S28 The relationship between trust and perceived importance of social distancing measures. It restricts the sample only to Lombardy and uses cumulative number of total cases tested positive for coronavirus at the municipality level instead of distance from outbreak areas. Observations are weighted.
- 1130 S29 The relationship between trust and holding wrong beliefs. It restricts
  1131 the sample only to Lombardy and uses cumulative number of total
  1132 cases tested positive for coronavirus at the municipality level instead
  1133 of distance from outbreak areas. Observations are weighted.

Table S10: Trust and perceived importance of social distancing measures: Weighted

Trust: science 0.021** 0.003 0.017** (0.005)		(1)	(2)	(3)
Frust: science		Social distancing: non-positive	Isolation: positive	Social distancing: elder
Frust: national government			/	
Frust: national government	Trust: science			
(0.003)		` ,	, ,	,
Grust: regional government         0.007*         -0.000         -0.000           Brust: National Inst. Pub. Health         0.003         (0.001)         (0.002)           Gender         -0.111         -0.013         -0.028           Gender         (0.122)         (0.045)         (0.163)           Age         0.013*         0.004*         0.004           Age         (0.006)         (0.002)         (0.005)           Secondary         -0.273         -0.022         -0.232*           Bachelor         -0.275         -0.135         -0.282           (0.200)         (0.057)         (0.095)           Master and Higher         -0.556*         -0.134*         -0.363**           Married         0.392         -0.488         0.219           Married         0.392         -0.488         0.219           Cohabitation         0.478**         0.017         0.165           Divorced         0.122         -0.030         0.126           Widow         0.529         -0.057         0.938**           Widow         0.529         -0.057         0.938*           Has children         -0.098         -0.011         0.05           Housewife	Trust: national government			0.008*
Company   Comp		` ,	, ,	· /
Frust: National Inst. Pub. Health (0.005) (0.003) (0.004) (0.004) (0.004) (0.006) (0.002) (0.005) (0.005) (0.006) (0.002) (0.005) (0.0	Trust: regional government	0.007*	-0.000	-0.000
Gender (0.005) (0.003) (0.003) (0.003) Gender (0.111		(0.003)	(0.001)	(0.002)
Gender	Trust: National Inst. Pub. Health	0.006	0.002	-0.004
Age		(0.005)	(0.003)	(0.003)
Age	Gender	-0.111	-0.013	-0.028
(0.006) (0.002) (0.005)		(0.122)	(0.045)	(0.163)
Secondary	Age	$0.013^*$	$0.004^*$	0.004
(0.200) (0.057) (0.095)		(0.006)	(0.002)	(0.005)
Bachelor	Secondary	-0.273	-0.022	-0.232*
Master and Higher		(0.200)	(0.057)	(0.095)
Master and Higher	Bachelor	` ,	, ,	, ,
Master and Higher $-0.556^{\circ}$ $-0.134^{\circ}$ $-0.363^{\circ\circ}$ Married $0.392$ $-0.048$ $0.219$ Cohabitation $0.478^{\circ\circ}$ $0.017$ $0.165$ Divorced $0.122$ $-0.030$ $0.126$ Widow $0.529$ $-0.057$ $0.938^{\circ\circ}$ Widow $0.529$ $-0.057$ $0.938^{\circ\circ}$ Has children $-0.098$ $-0.013$ $-0.015$ Has children $-0.098$ $-0.013$ $-0.015$ Housewife $-0.896^{\circ\circ}$ $0.011$ $-0.261$ Housewife $-0.896^{\circ\circ}$ $0.011$ $-0.261$ Other $-0.498^{\circ\circ}$ $0.011$ $-0.261$ Other $-0.498^{\circ\circ}$ $0.011$ $-0.261$ Employed $-0.412$ $-0.076$ $-0.071$ Employed $-0.412$ $-0.010$ $-0.261$ Employed $-0.412$ $-0.010$ $-0.261$ Retired $-0.190$ $-0.082$ $-1.001^{\circ\circ}$ Student		(0.185)	(0.109)	(0.205)
Married   (0.210)   (0.065)   (0.121)   Married   (0.392)   -0.048   0.219   (0.096)   (0.149)   (0.056)   (0.149)   (0.056)   (0.149)   (0.056)   (0.149)   (0.056)   (0.149)   (0.168)   (0.027)   (0.158)   (0.158)   (0.027)   (0.158)   (0.024)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.093)   (0.242)   (0.053)   (0.011)   (0.053)   (0.164)   (0.011)   (0.053)   (0.164)   (0.034)   (0.011)   (0.015)   (0.164)   (0.034)   (0.011)   (0.054)   (0.066)	Master and Higher		. ,	, ,
Married         0.392         -0.048         0.219           Cohabitation         0.478**         0.017         0.165           Cohabitation         0.478**         0.017         0.165           O.168         (0.027)         (0.158)           Divorced         0.122         -0.030         0.126           Widow         0.529         -0.057         0.938*           Widow         0.529         -0.013         -0.015           Has children         -0.098         -0.013         -0.015           Housewife         -0.896*         -0.011         -0.261           Other         -0.498*         -0.011         -0.261           Other         -0.498*         -0.076         -0.071           Other         -0.498*         -0.010         -0.261           Employed         -0.412         -0.010         -0.261           Employed         -0.412         -0.010         -0.261           Employed         -0.412         -0.010         -0.261           Employed         -0.412         -0.010         -0.285           Retired         -0.190         -0.082         -1.001*           Retired         -0.190         -0.082	3			
$ \begin{array}{c} (0.304) & (0.056) & (0.149) \\ (0.148) & (0.017) & (0.158) \\ (0.027) & (0.158) \\ (0.027) & (0.158) \\ (0.027) & (0.158) \\ (0.027) & (0.158) \\ (0.027) & (0.158) \\ (0.027) & (0.158) \\ (0.024) & (0.093) & (0.242) \\ (0.324) & (0.093) & (0.242) \\ (0.434) & (0.093) & (0.242) \\ (0.434) & (0.111) & (0.503) \\ (0.111) & (0.503) \\ (0.164) & (0.034) & (0.119) \\ (0.164) & (0.034) & (0.119) \\ (0.084) & (0.066) & (0.016) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.066) & (0.066) & (0.066) \\ (0.061) & (0.066) & (0.066) \\ (0.072) & (0.040) & (0.061) \\ (0.072) & (0.066) & (0.066) \\ (0.072) & (0.066) & (0.066) \\ (0.072) $	Married		, ,	` '
Cohabitation				
Divorced (0.168) (0.027) (0.158) Divorced (0.324) (0.093) (0.242) Widow (0.529 -0.057 0.938+ (0.434) (0.111) (0.503) Has children -0.098 -0.013 -0.015 Husewife (0.164) (0.034) (0.119) Housewife (0.467) (0.054) (0.182) Other -0.498+ -0.076 -0.071 Employed (0.294) (0.066) (0.176) Employed (0.297) (0.040) (0.189) Retired (0.402) (0.070) (0.538) Student -0.285 -0.079 -0.216 (0.296) (0.080) (0.183) Math skills (0.132 0.167 0.038 Husewife (0.296) (0.080) (0.183) Math skills (0.132 0.167 0.038 Husewife (0.020) (0.010) (0.031) Dutbreak areas -0.013 -0.032 0.094 (0.072) (0.040) (0.031) Dutbreak areas -0.013 -0.032 0.094 (0.072) (0.040) (0.031) Dutbreak areas -0.013 -0.032 0.094 (0.072) (0.040) (0.061) Lombardy -0.065 -0.063 -0.169 (0.171) (0.046) (0.218) Veneto -0.137 -0.120* -0.135 (0.154) (0.155) (0.172) Latitude -0.069 0.021 -0.006 (0.050) (0.017) (0.044) Constant 9.820** 8.272*** 8.239*** (2.214) (0.807) (1.895) V. 929.000 928.000	Cohabitation	` ,	, ,	` /
Divorced (0.122	Johnston			
Widow $(0.324)$ $(0.093)$ $(0.242)$ Widow $0.529$ $-0.057$ $0.938^+$ $(0.434)$ $(0.111)$ $(0.503)$ Has children $-0.098$ $-0.013$ $-0.015$ $(0.164)$ $(0.034)$ $(0.119)$ Housewife $-0.896^+$ $0.011$ $-0.261$ $(0.467)$ $(0.054)$ $(0.182)$ Other $-0.498^+$ $-0.076$ $-0.071$ $(0.294)$ $(0.066)$ $(0.176)$ Employed $-0.412$ $-0.010$ $-0.261$ $(0.297)$ $(0.040)$ $(0.189)$ Retired $-0.190$ $-0.082$ $-1.001^+$ $(0.402)$ $(0.070)$ $(0.538)$ Student $-0.285$ $-0.079$ $-0.216$ $(0.296)$ $(0.080)$ $(0.183)$ Math skills $0.132$ $0.167$ $0.038$ $(0.218)$ $(0.115)$ $(0.175)$ LR scale $-0.007$ $0.014$ $0.087^{**}$	Divorced		, ,	` '
Widow 0.529 -0.057 0.938+	Nivorced			
Has children  -0.098 -0.013 -0.015 -0.015 -0.098 -0.013 -0.015 -0.019 -0.0896 <sup>+</sup> -0.011 -0.261 -0.467) -0.054) -0.054) -0.011 -0.261 -0.498 <sup>+</sup> -0.076 -0.071 -0.294) -0.066) -0.071 -0.294) -0.412 -0.010 -0.261 -0.297) -0.040) -0.189) -0.190 -0.082 -1.001 <sup>+</sup> -0.190 -0.082 -1.007 -0.190 -0.083 -0.079 -0.216 -0.096 -0.080) -0.183 -0.167 -0.038 -0.167 -0.038 -0.167 -0.038 -0.013 -0.014 -0.087** -0.013 -0.032 -0.094 -0.072 -0.013 -0.032 -0.094 -0.072 -0.040) -0.061 -0.072 -0.040) -0.061 -0.072 -0.040) -0.061 -0.065 -0.063 -0.169 -0.171 -0.066 -0.171 -0.066 -0.171 -0.120* -0.135 -0.169 -0.137 -0.120* -0.135 -0.169 -0.172 -0.135 -0.169 -0.172 -0.135 -0.169 -0.069 -0.021 -0.066 -0.050 -0.069 -0.021 -0.066 -0.069 -0.021 -0.069 -0.021 -0.066 -0.069 -0.021 -0.066 -0.069 -0.021 -0.066 -0.069 -0.021 -0.066 -0.069 -0.021 -0.066 -0.069 -0.021 -0.066 -0.069 -0.021 -0.066 -0.069 -0.021 -0.066 -0.069 -0.021 -0.066 -0.069 -0.080 -0.08	Widow	` ,	, ,	
Has children $-0.098$ $-0.013$ $-0.015$ $-0.015$ $-0.080$ $-0.034$ $-0.015$ $-0.080$ $-0.080$ $-0.080$ $-0.080$ $-0.080$ $-0.080$ $-0.080$ $-0.080$ $-0.080$ $-0.071$ $-0.261$ $-0.080$ $-0.071$ $-0.082$ $-0.071$ $-0.071$ $-0.082$ $-0.071$ $-0.082$ $-0.071$ $-0.082$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.093$ $-0.094$ $-0.094$ $-0.095$ $-0.094$ $-0.095$ $-0.094$ $-0.095$ $-0.094$ $-0.095$ $-0.094$ $-0.095$ $-0.094$ $-0.095$ $-0.094$ $-0.095$ $-0.095$ $-0.094$ $-0.095$ $-0.095$ $-0.094$ $-0.095$ $-0.095$ $-0.095$ $-0.094$ $-0.095$	Nidow			4
Housewife $(0.164)$ $(0.034)$ $(0.119)$ $(0.119)$ $(0.080)$ $(0.119)$ $(0.080)$ $(0.119)$ $(0.081)$ $(0.081)$ $(0.082)$ $(0.467)$ $(0.054)$ $(0.082)$ $(0.182)$ $(0.294)$ $(0.066)$ $(0.176)$ $(0.294)$ $(0.066)$ $(0.176)$ $(0.294)$ $(0.066)$ $(0.176)$ $(0.294)$ $(0.066)$ $(0.176)$ $(0.297)$ $(0.040)$ $(0.189)$ $(0.297)$ $(0.040)$ $(0.189)$ $(0.297)$ $(0.040)$ $(0.082)$ $(0.070)$ $(0.538)$ $(0.402)$ $(0.070)$ $(0.538)$ $(0.402)$ $(0.070)$ $(0.538)$ $(0.295)$ $(0.080)$ $(0.183)$ $(0.296)$ $(0.080)$ $(0.183)$ $(0.296)$ $(0.080)$ $(0.183)$ $(0.218)$ $(0.218)$ $(0.115)$ $(0.175)$ $(0.175)$ $(0.20)$ $(0.010)$ $(0.031)$ $(0.020)$ $(0.010)$ $(0.031)$ $(0.020)$ $(0.010)$ $(0.031)$ $(0.072)$ $(0.040)$ $(0.061)$ $(0.061)$ $(0.072)$ $(0.040)$ $(0.061)$ $(0.061)$ $(0.072)$ $(0.171)$ $(0.046)$ $(0.218)$ $(0.171)$ $(0.046)$ $(0.218)$ $(0.154)$ $(0.055)$ $(0.172)$ $(0.172)$ $(0.154)$ $(0.055)$ $(0.172)$ $(0.172)$ $(0.050)$ $(0.017)$ $(0.044)$ $(0.051)$ $(0.072)$ $(0.017)$ $(0.044)$ $(0.055)$ $(0.172)$ $(0.050)$ $(0.017)$ $(0.044)$ $(0.050)$ $(0.017)$ $(0.045)$ $(0.050)$ $(0.017)$ $(0.045)$ $(0.050)$ $(0.017)$ $(0.045)$ $(0.050)$ $(0.017)$ $(0.050)$ $(0.017)$ $(0.050)$ $(0.017)$ $(0.050)$ $(0.017)$ $(0.05$	Too abilduos	` ,	, ,	` '
Housewife $-0.896^{+}$ $0.011$ $-0.261$ $0.467$ $0.054$ $0.054$ $0.182$ $0.016$ $0.467$ $0.054$ $0.054$ $0.082$ $0.016$ $0.071$ $0.294$ $0.066$ $0.076$ $0.071$ $0.294$ $0.066$ $0.076$ $0.076$ $0.076$ $0.076$ $0.090$ $0.082$ $0.040$ $0.089$ $0.082$ $0.090$ $0.082$ $0.090$ $0.082$ $0.090$ $0.082$ $0.090$ $0.082$ $0.090$ $0.082$ $0.090$ $0.082$ $0.090$ $0.083$ $0.090$ $0.083$ $0.080$ $0.094$ $0.080$ $0.094$ $0.080$ $0.094$ $0.094$ $0.094$ $0.096$ $0.094$ $0.096$ $0.094$ $0.096$ $0.096$ $0.096$ $0.096$ $0.096$ $0.098$ $0.098$ $0.099$ $0.099$ $0.099$ $0.099$ $0.099$ $0.099$ $0.090$ $0.09$	rias children			
Other $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		` ,	, ,	` '
Other $-0.498^{+}$ $-0.076$ $-0.071$ Employed $-0.412$ $-0.010$ $-0.261$ Retired $-0.190$ $-0.082$ $-1.001^{+}$ Retired $-0.190$ $-0.082$ $-1.001^{+}$ $(0.402)$ $(0.070)$ $(0.538)$ Student $-0.285$ $-0.079$ $-0.216$ $(0.296)$ $(0.080)$ $(0.183)$ Math skills $0.132$ $0.167$ $0.038$ Math skills $0.132$ $0.167$ $0.014$ $0.087^***$ LR scale $-0.007$ $0.014$ $0.087^***$ $0.094$ $0.032$ $0.094$	nousewiie			
Employed $(0.294)$ $(0.066)$ $(0.176)$ $(0.176)$ $-0.412$ $-0.010$ $-0.261$ $(0.297)$ $(0.040)$ $(0.189)$ Retired $-0.190$ $-0.082$ $-1.001^+$ $(0.402)$ $(0.070)$ $(0.538)$ Student $-0.285$ $-0.079$ $-0.216$ $(0.296)$ $(0.080)$ $(0.183)$ Math skills $0.132$ $0.167$ $0.038$ $(0.218)$ $0.115)$ $0.175$ $0.038$ $0.182$ $0.167$ $0.038$ $0.183$ $0.192$ $0.014$ $0.087^*$ $0.044$ $0.087^*$ $0.020)$ $0.014$ $0.087^*$ $0.020)$ $0.014$ $0.087^*$ $0.020)$ $0.010)$ $0.031)$ Outbreak areas $0.013$ $0.032$ $0.094$ $0.072$ $0.040$ $0.061$ $0.061$ $0.072$ $0.065$ $0.063$ $0.061$ $0.061$ $0.072$ $0.065$ $0.063$ $0.069$ $0.0169$ $0.017$ $0.0169$ $0.0171$ $0.046$ $0.0218$ $0.055$ $0.0172$ $0.0180$ $0.0172$ $0.0180$ $0.0172$ $0.0180$ $0.0172$ $0.0180$ $0.0172$ $0.0180$ $0.0172$ $0.0180$ $0.0172$ $0.0180$ $0.0172$ $0.0180$ $0.0172$ $0.0180$	0.1		, ,	` '
Employed $-0.412$ $-0.010$ $-0.261$ $(0.297)$ $(0.040)$ $(0.189)$ Retired $-0.190$ $-0.082$ $-1.001^+$ $(0.402)$ $(0.402)$ $(0.070)$ $(0.538)$ Student $-0.285$ $-0.079$ $-0.216$ $(0.296)$ $(0.080)$ $(0.183)$ Math skills $0.132$ $0.167$ $0.038$ $(0.218)$ $0.132$ $0.167$ $0.038$ $(0.218)$ $0.115)$ $(0.175)$ $0.014$ $0.087^{**}$ $(0.020)$ $(0.001)$ $(0.031)$ Outbreak areas $-0.013$ $-0.032$ $0.094$ $(0.072)$ $(0.040)$ $(0.061)$ Lombardy $-0.065$ $-0.063$ $-0.169$ $(0.171)$ $(0.046)$ $(0.218)$ Veneto $-0.137$ $-0.120^*$ $-0.135$ $(0.154)$ $(0.055)$ $(0.172)$ Latitude $-0.069$ $0.021$ $-0.006$ $0.017$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$ $0.018$	Other			
Retired $(0.297)$ $(0.040)$ $(0.189)$ Retired $-0.190$ $-0.082$ $-1.001^+$ $(0.402)$ $(0.070)$ $(0.538)$ Student $-0.285$ $-0.079$ $-0.216$ $(0.296)$ $(0.080)$ $(0.183)$ Math skills $0.132$ $0.167$ $0.038$ $(0.218)$ $(0.115)$ $(0.175)$ LR scale $-0.007$ $0.014$ $0.087^*$ $(0.020)$ $(0.010)$ $(0.031)$ Outbreak areas $-0.013$ $-0.032$ $0.094$ $(0.072)$ $(0.040)$ $(0.061)$ Lombardy $-0.065$ $-0.063$ $-0.169$ $(0.171)$ $(0.046)$ $(0.218)$ Veneto $-0.137$ $-0.120^*$ $-0.135$ $(0.154)$ $(0.055)$ $(0.172)$ Latitude $-0.069$ $0.021$ $-0.006$ $(0.050)$ $(0.017)$ $(0.044)$ Constant $9.820^{***}$ $8.272^{***}$ $8.239^{***}$ $(2.214)$ $(0.807)$ $(2.895)$ N.			, ,	` '
Retired $-0.190$ $-0.082$ $-1.001^{\frac{1}{4}}$ $(0.402)$ $(0.070)$ $(0.538)$ Student $-0.285$ $-0.079$ $-0.216$ $(0.296)$ $(0.080)$ $(0.183)$ Math skills $0.132$ $0.167$ $0.038$ $(0.218)$ $(0.115)$ $(0.175)$ $0.038$ $0.218$ $0.007$ $0.014$ $0.087^{**}$ $0.009$ $0$	Employed			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		` ,	, ,	` ′
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Retired			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(0.402)	(0.070)	(0.538)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Student	-0.285	-0.079	-0.216
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(0.296)	(0.080)	(0.183)
LR scale $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Math skills	0.132	0.167	0.038
Outbreak areas $(0.020)$ $(0.010)$ $(0.031)$ Outbreak areas $-0.013$ $-0.032$ $0.094$ $(0.072)$ $(0.040)$ $(0.061)$ Lombardy $-0.065$ $-0.063$ $-0.169$ Veneto $-0.137$ $-0.120^*$ $-0.135$ $(0.154)$ $(0.055)$ $(0.172)$ Latitude $-0.069$ $0.021$ $-0.006$ $(0.050)$ $(0.017)$ $(0.044)$ Constant $9.820^{***}$ $8.272^{***}$ $8.239^{***}$ $(2.214)$ $(0.807)$ $(1.895)$ N. $929.000$ $928.000$ $928.000$		(0.218)	(0.115)	(0.175)
Outbreak areas $-0.013$ $-0.032$ $0.094$ Lombardy $(0.072)$ $(0.040)$ $(0.061)$ Lombardy $-0.065$ $-0.063$ $-0.169$ Veneto $-0.137$ $-0.120^*$ $-0.135$ Veneto $(0.154)$ $(0.055)$ $(0.172)$ Latitude $-0.069$ $0.021$ $-0.006$ $(0.050)$ $(0.017)$ $(0.044)$ Constant $9.820^{***}$ $8.272^{***}$ $8.239^{***}$ $(2.214)$ $(0.807)$ $(1.895)$ N. $929.000$ $928.000$ $928.000$	LR scale	-0.007	0.014	0.087**
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(0.020)	(0.010)	(0.031)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Outbreak areas		, ,	, ,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Lombardy		, ,	, ,
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Veneto			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Latitude	` ,	, ,	. ,
Constant 9.820*** 8.272*** 8.239*** (2.214) (0.807) (1.895) N. 929.000 928.000 928.000	Latitude			
(2.214) (0.807) (1.895) N. 929.000 928.000 928.000	Constant			
N. 929.000 928.000 928.000	onstant			
	NT.			

Table S11: Trust and perceived importance of social distancing measures: Weighted

	(1)	(2)	(3)
	Social distancing: non-positive	Isolation: positive	Social distancing: elderl
	b/se	b/se	b/se
Trust: science	0.021**	0.003	0.017**
	(0.008)	(0.003)	(0.005)
Trust: national government	-0.004	0.001	0.008*
	(0.002)	(0.001)	(0.004)
Trust: regional government	0.007**	-0.000	-0.000
	(0.003)	(0.001)	(0.002)
Trust: National Inst. Pub. Health	0.006	0.002	-0.004
	(0.005)	(0.003)	(0.003)
Gender	-0.114	-0.015	-0.025
	(0.121)	(0.046)	(0.162)
Age	0.013*	$0.005^*$	0.004
	(0.006)	(0.002)	(0.005)
Secondary	-0.266	-0.021	-0.232*
	(0.197)	(0.056)	(0.093)
Bachelor	-0.267	-0.133	-0.284
	(0.181)	(0.107)	(0.205)
Master and Higher	-0.549*	-0.132*	-0.365**
	(0.208)	(0.065)	(0.121)
Married	0.375	-0.055	0.229
	(0.297)	(0.055)	(0.143)
Cohabitation	0.466**	0.014	0.169
	(0.164)	(0.027)	(0.154)
Divorced	0.111	-0.034	0.133
	(0.319)	(0.092)	(0.240)
Vidow	0.479	-0.077	0.970*
VIdow	(0.431)	(0.117)	(0.478)
Has children	-0.086	-0.008	-0.021
illus cinidicii	(0.156)	(0.034)	(0.117)
Housewife	-0.899 <sup>+</sup>	0.009	-0.260
Housewife	(0.473)	(0.053)	(0.182)
Other	-0.485	-0.072	-0.077
Stilei	(0.297)	(0.067)	
Employed	* *	, ,	(0.177)
Employed	-0.408	-0.009	-0.262
D.4: - 1	(0.295)	(0.040)	(0.188)
Retired	-0.162	-0.074	-1.007+
7. 1	(0.405)	(0.070)	(0.530)
Student	-0.288	-0.080	-0.214
	(0.296)	(0.079)	(0.183)
Math skills	0.138	0.168	0.040
	(0.220)	(0.116)	(0.174)
LR scale	-0.005	0.014	0.087**
	(0.021)	(0.010)	(0.031)
Distance from outbreak areas	0.001	0.000	-0.000
	(0.001)	(0.000)	(0.001)
Lombardy	-0.023	-0.052	-0.175
	(0.168)	(0.052)	(0.219)
Veneto	-0.144	-0.121*	-0.138
	(0.154)	(0.059)	(0.172)
Latitude	0.004	0.041	-0.020
	(0.086)	(0.033)	(0.087)
Constant	6.302	7.309***	8.891*
	(3.914)	(1.644)	(3.951)
N.	929.000	928.000	928.000
$R^2$	0.157	0.059	0.185

Table S12: Trust and perceived importance of social distancing measures

	(1)	(2)	(3)
	Social distancing: non-positive	-	Social distancing: elderly
	b/se	b/se	b/se
Trust: science	0.025***	0.014**	0.020**
	(0.007)	(0.005)	(0.006)
Trust: national government	-0.000	0.002	0.001
	(0.003)	(0.002)	(0.002)
Trust: regional government	0.006	0.000	0.002
	(0.004)	(0.001)	(0.002)
Trust: National Inst. Pub. Health	0.016**	0.001	0.001
	(0.005)	(0.004)	(0.004)
Gender	-0.339***	-0.038	-0.201*
	(0.088)	(0.050)	(0.083)
Age	0.011	0.006+	0.000
8.	(0.007)	(0.003)	(0.004)
Secondary	-0.114	-0.043	-0.271***
Secondary	(0.218)	(0.118)	(0.075)
Bachelor	-0.256	-0.055	-0.341**
Dacheloi	(0.261)	(0.112)	(0.108)
Master and Higher	-0.426 <sup>+</sup>	-0.096	-0.480***
Master and Higher			
Manniad	(0.222)	(0.119)	(0.086)
Married	0.053	-0.036	0.170*
0.1.1%	(0.121)	(0.070)	(0.085)
Cohabitation	0.139	0.025	0.118
D	(0.124)	(0.034)	(0.086)
Divorced	0.233	0.033	0.147
Widow	(0.229)	(0.058)	(0.134)
	0.473	0.021	0.482
	(0.350)	(0.157)	(0.350)
Has children	-0.270+	-0.094	0.029
	(0.155)	(0.063)	(0.073)
Housewife	-0.001	0.165*	-0.120
	(0.375)	(0.072)	(0.179)
Other	-0.086	-0.016	0.008
	(0.326)	(0.068)	(0.124)
Employed	0.084	0.025	-0.126*
r	(0.186)	(0.066)	(0.062)
Retired	0.325	-0.014	-0.680+
1001104	(0.355)	(0.065)	(0.345)
Student	-0.222	-0.014	-0.226*
Student	(0.208)	(0.069)	(0.094)
Math skills	0.130	0.369	0.242
Math Skins			
I D1-	(0.320)	(0.321)	(0.349)
LR scale	-0.007	0.008	0.040+
0.411	(0.026)	(0.014)	(0.023)
Outbreak areas	-0.128	-0.061	0.096+
	(0.147)	(0.075)	(0.056)
Lombardy	0.083	-0.006	0.018
	(0.115)	(0.038)	(0.102)
Veneto	0.124	-0.131+	-0.043
	(0.117)	(0.072)	(0.118)
Latitude	-0.052	0.003	$-0.048^{+}$
	(0.047)	(0.018)	(0.028)
Constant	7.452**	7.720***	9.700***
	(2.279)	(0.886)	(1.217)
N.	924.000	923.000	923.000
$R^2$	0.139	0.090	0.078

Table S13: Trust and perceived importance of social distancing measures: Robustness

	(1)	(2)	(3)
	Social distancing: non-positive	Isolation: positive	Social distancing: elderly
	b/se	b/se	b/se
Trust science (avg)	0.038***	0.013**	0.016**
	(0.007)	(0.005)	(0.005)
Trust politicians (avg)	$0.006^{*}$	0.001	0.002
	(0.003)	(0.002)	(0.003)
Gender	-0.355***	-0.046	-0.218*
	(0.094)	(0.054)	(0.085)
Age	0.010	0.005	-0.001
Ü	(0.007)	(0.003)	(0.004)
Secondary	-0.098	-0.030	-0.248**
v	(0.221)	(0.118)	(0.084)
Bachelor	-0.255	-0.050	-0.334**
	(0.260)	(0.109)	(0.102)
Master and Higher	-0.411+	-0.078	-0.453***
	(0.223)	(0.122)	(0.083)
Married	0.069	-0.012	0.206*
Widiliod	(0.124)	(0.073)	(0.094)
Cohabitation	0.143	0.040	0.139
Collabitation	(0.125)	(0.038)	(0.089)
Divorced	0.265	0.076	0.212
Divorced	(0.227)	(0.059)	(0.136)
Widow	0.463	0.026	0.483
Widow			
II.a. alail Jaan	(0.358)	(0.167)	(0.381)
Has children	-0.266 <sup>+</sup>	-0.095	0.030
II	(0.157)	(0.060)	(0.071)
Housewife	-0.040	0.141+	-0.167
0.1	(0.370)	(0.075)	(0.188)
Other	-0.098	-0.023	-0.006
	(0.312)	(0.070)	(0.117)
Employed	0.089	0.024	-0.125*
	(0.187)	(0.066)	(0.062)
Retired	0.237	-0.030	-0.738*
	(0.287)	(0.063)	(0.325)
Student	-0.220	-0.016	-0.227*
	(0.211)	(0.068)	(0.092)
Math skills	0.131	0.382	0.259
	(0.321)	(0.328)	(0.359)
LR scale	0.007	0.006	$0.044^{+}$
	(0.021)	(0.012)	(0.023)
Outbreak areas	-0.106	-0.058	$0.109^{+}$
	(0.144)	(0.074)	(0.059)
Lombardy	0.061	-0.015	-0.002
	(0.111)	(0.034)	(0.098)
Veneto	$0.102^{'}$	-0.142*	-0.066
	(0.116)	(0.066)	(0.119)
Latitude	-0.040	0.005	-0.039
	(0.044)	(0.018)	(0.027)
Constant	7.178**	7.977***	9.882***
	(2.216)	(0.878)	(1.216)
N.	924.000	923.000	923.000
$R^2$	0.136	0.079	0.068

Table S14: Trust and perceived importance of social distancing measures: Robustness  $\,$ 

	(1)	(2)	(3)	(4)	(5)
	b/se	b/se	b/se	b/se	b/se
Social distancing: non-positive					
Trust: National Inst. Pub. Health	0.028***				$0.015^{**}$
	(0.005)				(0.005)
Trust: regional government		$0.013^{***}$			0.006
		(0.003)			(0.004)
Trust: national government			0.013***		-0.000
			(0.003)		(0.003)
Trust: science				$0.041^{***}$	0.026***
				(0.007)	(0.007)
Constant	6.998**	12.682***	10.704***	$6.655^{*}$	6.691*
	(2.576)	(1.961)	(2.001)	(2.652)	(3.193)
N.	933.000	931.000	929.000	935.000	929.000
$R^2$	0.115	0.072	0.068	0.106	0.138
Isolation: positive					
Trust: National Inst. Pub. Health	0.008*				0.001
	(0.003)				(0.004)
Trust: regional government		0.003**			0.000
		(0.001)			(0.001)
Trust: national government			0.004**		0.002
			(0.002)		(0.002)
Trust: science				0.017***	0.014**
				(0.004)	(0.005)
Constant	8.446***	9.655***	9.064***	7.684***	7.943***
	(0.789)	(0.852)	(0.821)	(0.871)	(2.190)
N.	933.000	931.000	928.000	935.000	928.000
$R^2$	0.059	0.042	0.050	0.094	0.090
Social distancing: elderly					
Trust: National Inst. Pub. Health	0.010***				0.000
	(0.003)				(0.004)
Trust: regional government		0.005**			0.003
		(0.002)			(0.002)
Trust: national government			0.006**		0.001
			(0.002)		(0.002)
Trust: science				0.022***	0.021**
				(0.005)	(0.006)
Constant	10.603***	11.979***	11.318***	9.805***	9.752***
	(1.217)	(1.250)	(1.228)	(1.259)	(2.528)
N.	932.000	931.000	928.000	934.000	928.000
$R^2$	0.053	0.046	0.047	0.071	0.077
Controls	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>

Table S15: Determinants of wrong beliefs: Weighted

	(1)	(2)	(3)	(4)
	Wrong: Youths	Wrong: Antibiotics	Wrong: Parcels	Wrong: Hands
Tweate aciones	b/se -0.008***	b/se -0.011***	b/se -0.008*	b/se -0.012***
Trust: science	(0.002)	(0.002)	(0.003)	(0.002)
Trust: national government	0.002)	-0.002)	0.003)	$0.002^{+}$
rrust. national government	(0.001)	(0.002)	(0.001)	(0.002)
Tweet, regional government	, ,	` /	\ /	` ′
Trust: regional government	-0.000	0.002	0.001	-0.001
Trust: National Inst. Pub. Health	(0.002)	(0.002)	(0.002)	(0.002)
Trust: National Inst. Fub. Health	-0.006**	0.001	-0.002	0.001
C 1	(0.002)	(0.002)	(0.002)	(0.002)
Gender	0.095	0.018	0.106*	-0.091 <sup>+</sup>
	(0.066)	(0.062)	(0.052)	(0.049)
Age	0.003	0.000	-0.004	-0.014***
G 1	(0.003)	(0.004)	(0.004)	(0.002)
Secondary	-0.309***	-0.173	0.155	0.134
	(0.089)	(0.110)	(0.116)	(0.098)
Bachelor	-0.328***	-0.194+	$0.203^{+}$	0.130
	(0.088)	(0.108)	(0.118)	(0.105)
Master and Higher	-0.326***	-0.312**	0.087	0.046
	(0.094)	(0.109)	(0.133)	(0.094)
Married	-0.006	-0.110	-0.135	-0.075
	(0.061)	(0.141)	(0.085)	(0.082)
Cohabitation	0.070	$-0.220^{+}$	-0.212**	-0.111
	(0.079)	(0.125)	(0.074)	(0.078)
Divorced	$-0.233^{+}$	$-0.261^{+}$	0.021	0.060
	(0.129)	(0.131)	(0.097)	(0.102)
Widow	-0.344	-0.196	-0.233	-0.388*
	(0.272)	(0.173)	(0.190)	(0.153)
Has children	-0.038	$0.197^{+}$	$0.257^{*}$	0.201**
	(0.050)	(0.107)	(0.104)	(0.068)
Housewife	-0.263	-0.165	0.201	0.142
	(0.217)	(0.256)	(0.160)	(0.158)
Other	-0.164	-0.091	0.011	0.158
	(0.161)	(0.200)	(0.124)	(0.100)
Employed	-0.144	0.070	0.000	0.221**
r	(0.097)	(0.093)	(0.102)	(0.073)
Retired	-0.133	$0.174^{+}$	$0.339^{*}$	0.499***
	(0.185)	(0.100)	(0.167)	(0.141)
Student	-0.181+	-0.108	-0.043	0.038
	(0.099)	(0.086)	(0.090)	(0.077)
Math skills	0.004	0.336**	0.006	-0.000
Wildelf Skills	(0.103)	(0.103)	(0.102)	(0.129)
LR scale	-0.004	-0.038*	0.009	-0.021*
Ert scare	(0.019)	(0.014)	(0.015)	(0.010)
Outbreak areas	-0.036	0.082	-0.047	-0.106*
Outbreak areas	(0.051)	(0.099)	(0.066)	(0.053)
Lombardy	0.146*	-0.092	-0.031	0.160*
Lombardy				
Vanata	(0.073)	(0.094)	(0.110)	(0.078)
Veneto	0.143*	-0.141	-0.140	0.066
T .:. 1	(0.061)	(0.087)	(0.103)	(0.082)
Latitude	-0.035+	-0.008	0.001	-0.042
	(0.021)	(0.026)	(0.033)	(0.032)
Constant	3.442***	1.945+	1.224	3.462*
	(0.936)	(1.141)	(1.495)	(1.489)
N.	926.000	766.000	921.000	926.000
$R^2$	0.399	0.310	0.258	0.225

Table S16: Determinants of wrong beliefs

	(1)	(2)	(3)	(4)
	Wrong: Youths	Wrong: Antibiotics	Wrong: Parcels	Wrong: Hands b/se
Trust: science	b/se -0.011***	b/se -0.008***	b/se -0.011***	-0.012***
Trust: science			(0.002)	
Tweat, national government	(0.003) $0.001$	(0.002)	, ,	(0.001)
Trust: national government		0.000	-0.002	0.000
m . 1	(0.001)	(0.001)	(0.001)	(0.001)
Trust: regional government	0.000	-0.001	0.001	-0.001
T	(0.001)	(0.001)	(0.001)	(0.001)
Trust: National Inst. Pub. Health	-0.003	0.002	0.001	0.001
~ .	(0.002)	(0.002)	(0.002)	(0.001)
Gender	0.045	-0.037	0.003	-0.019
	(0.038)	(0.039)	(0.030)	(0.033)
Age	0.005**	-0.004	0.001	-0.009***
	(0.002)	(0.003)	(0.002)	(0.002)
Secondary	$-0.222^{+}$	-0.047	-0.089	0.042
	(0.130)	(0.117)	(0.115)	(0.144)
Bachelor	-0.211	-0.017	-0.026	0.112
	(0.127)	(0.106)	(0.133)	(0.151)
Master and Higher	-0.261*	-0.138	-0.137	0.003
_	(0.124)	(0.120)	(0.124)	(0.131)
Married	-0.065	-0.023	-0.002	0.028
	(0.040)	(0.088)	(0.054)	(0.063)
Cohabitation	-0.031	0.005	0.011	0.037
	(0.035)	(0.072)	(0.066)	(0.050)
Divorced	-0.061	-0.173 <sup>+</sup>	-0.024	0.063
Divorcod	(0.077)	(0.091)	(0.084)	(0.080)
Widow	-0.271	-0.117	-0.428*	-0.362**
Widow	(0.315)	(0.276)	(0.162)	(0.125)
Has children	, ,	` /	` /	, ,
nas children	-0.003	0.198**	0.061	0.073
II:£-	(0.035)	(0.074)	(0.043)	(0.054)
Housewife	-0.060	-0.064	-0.098	-0.020
0.1	(0.142)	(0.165)	(0.109)	(0.119)
Other	-0.118	-0.178+	-0.071	0.007
	(0.088)	(0.100)	(0.086)	(0.092)
Employed	-0.032	-0.051	-0.023	0.028
	(0.048)	(0.072)	(0.041)	(0.056)
Retired	-0.117	0.176	0.315**	0.364**
	(0.136)	(0.149)	(0.098)	(0.122)
Student	-0.030	-0.065	0.002	-0.015
	(0.051)	(0.072)	(0.048)	(0.059)
Math skills	-0.009	0.088	0.056	$0.123^{+}$
	(0.084)	(0.078)	(0.077)	(0.069)
LR scale	-0.000	0.006	$0.002^{'}$	0.004
	(0.006)	(0.009)	(0.009)	(0.006)
Outbreak areas	$0.155^{*}$	-0.005	-0.008	0.059
	(0.064)	(0.051)	(0.061)	(0.048)
Lombardy	0.041	-0.004	-0.065	-0.031
	(0.045)	(0.055)	(0.047)	(0.045)
Veneto	0.069	-0.020	-0.068	-0.045
VOHOUU	(0.043)	(0.047)	(0.049)	(0.048)
Latituda	, ,	, ,	, ,	, ,
Latitude	-0.014	-0.024	-0.009	0.009
	(0.019)	(0.021)	(0.019)	(0.021)
Constant	2.224*	2.252*	2.052*	1.106
	(0.892)	(0.918)	(0.898)	(0.959)
N.	926.000	766.000	921.000	926.000
$R^2$	0.104	0.059	0.082	0.087

Table S17: Determinants of wrong beliefs: Robustness

	(1)	(2)	(3)	(4)
	Wrong: Youths	Wrong: Antibiotics	Wrong: Parcels	Wrong: Hands
	b/se	b/se	b/se	b/se
Trust: science	-0.011***	-0.008***	-0.011***	-0.012***
	(0.003)	(0.002)	(0.002)	(0.001)
Trust: national government	0.001	0.000	-0.001	0.000
	(0.001)	(0.001)	(0.001)	(0.001)
Trust: regional government	0.001	-0.001	0.001	-0.001
	(0.001)	(0.001)	(0.001)	(0.001)
Trust: National Inst. Pub. Health	-0.002	0.002	0.000	0.001
	(0.002)	(0.002)	(0.001)	(0.001)
Gender	0.052	-0.038	0.000	-0.017
	(0.039)	(0.038)	(0.031)	(0.034)
Age	0.005**	-0.004	0.001	-0.009***
	(0.002)	(0.003)	(0.002)	(0.002)
Secondary	-0.233+	-0.037	-0.086	0.040
	(0.128)	(0.113)	(0.111)	(0.140)
Bachelor	-0.219 <sup>+</sup>	-0.012	-0.028	0.110
	(0.123)	(0.104)	(0.130)	(0.148)
Master and Higher	-0.275*	-0.128	-0.134	-0.000
	(0.120)	(0.117)	(0.120)	(0.127)
Married	-0.058	-0.023	-0.002	0.031
	(0.041)	(0.088)	(0.052)	(0.064)
Cohabitation	-0.033	0.006	0.012	0.037
	(0.035)	(0.072)	(0.067)	(0.050)
Divorced	-0.055	-0.176+	-0.027	0.065
	(0.079)	(0.091)	(0.086)	(0.081)
Widow	-0.211	-0.127	-0.437**	-0.341*
	(0.366)	(0.289)	(0.161)	(0.142)
Has children	-0.005	0.193*	0.058	0.071
	(0.036)	(0.074)	(0.043)	(0.053)
Housewife	-0.033	-0.068	-0.101	-0.010
	(0.139)	(0.171)	(0.111)	(0.121)
Other	-0.107	-0.196 <sup>+</sup>	-0.083	0.005
D 1 1	(0.088)	(0.100)	(0.086)	(0.092)
Employed	-0.026	-0.057	-0.028	0.028
D 4: 1	(0.048)	(0.072)	(0.042)	(0.056)
Retired	-0.116	0.164	0.309**	0.362**
Ct. 1	(0.135)	(0.153)	(0.100)	(0.122)
Student	-0.027	-0.067	0.000	-0.015
M-41 -1-:11-	(0.053)	(0.072)	(0.048)	(0.059)
Math skills	0.004	0.079	0.043	0.123+
I D goole	(0.079)	(0.079)	(0.077)	(0.069)
LR scale	-0.001	0.006	0.002 $(0.009)$	0.004 $(0.006)$
Distance from outbreak areas	(0.006)	(0.009) -0.001 <sup>+</sup>		, ,
Distance from outbreak areas	0.000		-0.001+	-0.000
Lombardy	$(0.000) \\ 0.063$	(0.000) -0.028	(0.000) -0.085 <sup>+</sup>	(0.000) -0.030
Lombardy				
Veneto	(0.049) $0.067$	(0.053) -0.018	(0.045) -0.062	(0.048) -0.043
v ∈петО	(0.040)	-0.018 (0.041)	(0.048)	
Latitudo	0.004	-0.066**	-0.052	(0.048) -0.002
Latitude	(0.004)	(0.024)	(0.031)	(0.029)
Constant	(0.031) $1.375$	(0.024) 4.227***	(0.031) 4.101**	(0.029) $1.646$
Constant				
N.	(1.456) 926.000	(1.134) 766.000	(1.486)	(1.390)
$R^2$	926.000 0.098	0.062	921.000 0.084	926.000 $0.087$
11	0.090	0.002	0.004	0.007

Table S18: Determinants of wrong beliefs: Robustness

	(1)	(2)	(3)	(4)
	Wrong: Youths	Wrong: Antibiotics	Wrong: Parcels	Wrong: Hands
	b/se	b/se	b/se	b/se
Trust science (avg)	-0.012***	-0.004*	-0.008***	-0.008***
, ,,	(0.002)	(0.002)	(0.001)	(0.002)
Trust politicians (avg)	$0.002^{*}$	0.000	0.000	0.000
	(0.001)	(0.001)	(0.001)	(0.001)
Gender	0.058	-0.030	0.006	-0.007
	(0.036)	(0.037)	(0.030)	(0.034)
Age	0.005**	-0.003	0.001	-0.008***
	(0.002)	(0.003)	(0.002)	(0.002)
Secondary	-0.239 <sup>+</sup>	-0.042	-0.093	0.031
Ü	(0.124)	(0.117)	(0.116)	(0.141)
Bachelor	-0.218 <sup>+</sup>	-0.009	-0.030	0.111
	(0.119)	(0.106)	(0.134)	(0.148)
Master and Higher	-0.283*	-0.135	-0.146	-0.012
	(0.115)	(0.120)	(0.126)	(0.129)
Married	$-0.074^{+}$	-0.044	-0.025	0.008
	(0.040)	(0.086)	(0.052)	(0.068)
Cohabitation	-0.042	-0.006	-0.004	0.024
	(0.035)	(0.069)	(0.066)	(0.053)
Divorced	-0.083	-0.207*	-0.066	0.025
	(0.085)	(0.091)	(0.081)	(0.084)
Widow	-0.211	-0.147	-0.441**	-0.339*
	(0.372)	(0.265)	(0.151)	(0.162)
Has children	-0.006	$0.194^*$	0.059	0.070
	(0.037)	(0.073)	(0.045)	(0.054)
Housewife	-0.013	-0.047	-0.080	0.021
	(0.140)	(0.167)	(0.112)	(0.129)
Other	-0.102	$-0.175^{+}$	-0.079	0.014
	(0.089)	(0.095)	(0.092)	(0.099)
Employed	-0.026	-0.061	-0.026	0.027
	(0.049)	(0.071)	(0.044)	(0.057)
Retired	-0.099	0.188	0.307**	0.398**
	(0.138)	(0.152)	(0.102)	(0.116)
Student	-0.026	-0.070	0.003	-0.014
	(0.052)	(0.072)	(0.046)	(0.058)
Math skills	-0.005	0.069	0.027	0.112
	(0.077)	(0.080)	(0.074)	(0.078)
LR scale	-0.002	0.004	0.006	-0.000
	(0.006)	(0.008)	(0.008)	(0.005)
Distance from outbreak areas	0.000	$-0.001^{+}$	$-0.001^{+}$	-0.000
	(0.000)	(0.000)	(0.000)	(0.000)
Lombardy	0.071	-0.016	$-0.079^{+}$	-0.017
	(0.049)	(0.055)	(0.044)	(0.046)
Veneto	0.076+	-0.003	-0.052	-0.028
Total 1	(0.042)	(0.043)	(0.042)	(0.046)
Latitude	0.001	-0.069**	-0.054 <sup>+</sup>	-0.007
	(0.033)	(0.026)	(0.031)	(0.032)
Constant	1.246	4.123**	3.858*	1.503
N	(1.503)	(1.213)	(1.484)	(1.501)
N.	926.000	766.000	921.000	926.000
$R^2$	0.087	0.050	0.065	0.065

Table S19: Determinants of wrong beliefs: Robustness

	(1)	(2)	(0)	
	(1)	(2)	(3)	(4)
	b/se	How much wrong: Antibiotics b/se	b/se	b/se
Trust: science	-0.035***	-0.015	-0.037***	-0.027***
Trust: science	(0.008)			(0.006)
Trust: national government	0.005+	(0.011)	(0.007) -0.013**	0.000
1rust: national government		0.007		
Trust: regional government	(0.003)	(0.005)	(0.005) 0.006	(0.002) -0.004 <sup>+</sup>
11 ust. Tegional government	-0.003	-0.003	(0.004)	
Trust: National Inst. Pub. Health	(0.003) -0.010*	(0.004) -0.003	-0.006	(0.002) -0.005
frust. Ivational first. 1 ub. Health	(0.005)	(0.007)	(0.005)	(0.004)
Gender	0.287*	0.088	-0.091	-0.006
Gender	(0.129)	(0.143)	(0.092)	(0.088)
Age	0.008	-0.021	0.000	-0.015***
1180	(0.005)	(0.014)	(0.007)	(0.004)
Secondary	-0.845	-0.180	-0.051	0.027
Secondary	(0.597)	(0.514)	(0.462)	(0.314)
Bachelor	-0.885	-0.101	0.212	0.189
Dacheloi	(0.602)	(0.555)	(0.497)	(0.277)
Master and Higher	-0.870	-0.528	-0.332	-0.086
waster and riigher	(0.581)	(0.519)	(0.457)	(0.263)
Married	, ,			
warried	-0.261*	-0.154	0.187	-0.126
Cohabitation	(0.098)	(0.331)	(0.258)	(0.159)
Conaditation	-0.136	0.102	0.042	-0.061
Divorced	(0.121)	(0.218)	(0.218) 0.245	(0.131)
Divorced	-0.080	-0.598		-0.002
117: 1	(0.266)	(0.387)	(0.311)	(0.240)
Widow	-1.163*	-1.058	-1.666***	-1.087*
II 1:11	(0.444)	(0.636)	(0.405)	(0.432)
Has children	0.167	0.838*	0.347+	0.249*
II:f-	(0.170)	(0.378)	(0.203)	(0.103)
Housewife	-0.709*	-0.022	-0.543	-0.286
Oth	(0.300)	(0.808)	(0.583)	(0.275)
Other	-0.519**	-0.565	-0.432	-0.110
E 1 1	(0.184)	(0.580)	(0.293)	(0.227)
Employed	-0.175	-0.333	-0.328	-0.024
D .: 1	(0.161)	(0.364)	(0.235)	(0.131)
Retired	-0.409	-0.023	0.565	0.774+
D. 1	(0.396)	(0.618)	(0.623)	(0.439)
Student	-0.156	-0.333	-0.224	-0.147
N. J. 121	(0.171)	(0.335)	(0.240)	(0.163)
Math skills	-0.315	0.249	-0.050	0.296+
	(0.308)	(0.385)	(0.357)	(0.164)
LR scale	0.038+	0.075	0.000	0.015
	(0.022)	(0.050)	(0.036)	(0.019)
Outbreak areas	0.492**	-0.061	0.229	0.185
r 1 1	(0.159)	(0.231)	(0.236)	(0.161)
Lombardy	0.166	-0.080	-0.033	-0.181
	(0.156)	(0.269)	(0.185)	(0.122)
Veneto	0.299+	-0.155	0.035	-0.208+
	(0.163)	(0.239)	(0.190)	(0.124)
Latitude	-0.065	-0.098	-0.121	0.046
_	(0.074)	(0.091)	(0.082)	(0.045)
Constant	8.352*	8.002+	11.651**	1.959
	(3.177)	(4.088)	(3.807)	(2.051)
N.	926.000	766.000	921.000	926.000
$R^2$	0.126	0.043	0.104	0.102

Table S20: Determinants of wrong beliefs: Robustness

	(1)	(2)	(3)	(4)
	Wrong: Youths	Wrong: Antibiotics	Wrong: Parcels	Wrong: Hand
Trust: science	b/se -0.055***	b/se -0.034***	b/se -0.056***	b/se -0.056***
11 ust. science	(0.013)	(0.010)	(0.012)	(0.008)
Trust: national government	0.005	0.001	-0.007	0.001
11 dst. national government	(0.003)	(0.005)	(0.005)	(0.005)
Trust: regional government	0.002	-0.003	0.003	-0.005
Trust. regional government	(0.002)	(0.005)	(0.004)	(0.004)
Trust: National Inst. Pub. Health	-0.012	0.003)	0.001	0.004)
frust. National first. 1 ub. freatti	(0.008)	(0.008)		
Gender	0.239	-0.152	$(0.007) \\ 0.022$	(0.007) -0.085
Gender				
Λ	(0.182)	(0.163)	(0.131)	(0.154)
Age	0.024**	-0.016	0.001	-0.046***
G 1	(0.009)	(0.013)	(0.009)	(0.009)
Secondary	-0.970+	-0.205	-0.412	0.189
D 1.1	(0.570)	(0.483)	(0.509)	(0.701)
Bachelor	-0.903	-0.075	-0.130	0.511
	(0.557)	(0.437)	(0.583)	(0.723)
Master and Higher	-1.158*	-0.590	-0.622	0.013
	(0.541)	(0.496)	(0.544)	(0.642)
Married	$-0.327^{+}$	-0.112	-0.006	0.126
	(0.198)	(0.385)	(0.231)	(0.313)
Cohabitation	-0.159	0.017	0.043	0.187
	(0.176)	(0.305)	(0.279)	(0.232)
Divorced	-0.298	$-0.774^{+}$	-0.133	0.346
	(0.380)	(0.416)	(0.364)	(0.398)
Widow	-1.273	-0.525	-2.315*	0.000
	(1.427)	(1.221)	(0.921)	(.)
Has children	-0.001	0.858**	0.292	0.394
	(0.173)	(0.328)	(0.186)	(0.267)
Housewife	-0.310	-0.284	-0.488	-0.041
	(0.718)	(0.699)	(0.473)	(0.581)
Other	-0.629	-0.789 <sup>+</sup>	-0.325	0.078
	(0.513)	(0.458)	(0.366)	(0.449)
Employed	-0.160	-0.219	-0.112	0.157
	(0.231)	(0.297)	(0.179)	(0.267)
Retired	-0.557	0.796	1.891*	1.868***
Tooling	(0.604)	(0.738)	(0.744)	(0.553)
Student	-0.155	-0.284	-0.019	-0.076
Student	(0.249)	(0.298)	(0.212)	(0.278)
Math skills	-0.033	0.376	0.221	0.708+
Math Skins	(0.404)	(0.346)	(0.375)	(0.429)
LR scale	-0.004	0.026	0.008	0.019
LIT SCALE		(0.038)		(0.019)
O	(0.031)		(0.041)	
Outbreak areas	0.718*	-0.023	-0.045	0.248
T 1 1	(0.284)	(0.214)	(0.250)	(0.210)
Lombardy	0.234	-0.013	-0.284	-0.153
X7	(0.247)	(0.235)	(0.204)	(0.215)
Veneto	0.359	-0.087	-0.315	-0.229
	(0.231)	(0.201)	(0.214)	(0.231)
Latitude	-0.069	-0.105	-0.035	0.047
	(0.100)	(0.092)	(0.086)	(0.100)
Constant	$8.271^{+}$	$7.696^{+}$	$7.397^{+}$	2.872
	(4.535)	(4.075)	(4.094)	(4.666)
N.	926.000	766.000	921.000	923.000

Table S21: Relationship between holding wrong beliefs and support for containment measures (Weighted)

	(1)	(2)	(3)
	Social distancing: non-positive		
	b/se	b/se	b/se
At lest once wrong	-0.479***	-0.094***	-0.024
T	(0.102)	(0.023)	(0.129)
Trust: science	0.018+	0.003	0.019**
T	(0.009)	(0.004)	(0.006)
Trust: national government	-0.003	0.001	0.009+
T	(0.002)	(0.001)	(0.005)
Trust: regional government	0.007*	-0.000	0.001
T . N 11 . D 1 II 11	(0.003)	(0.001)	(0.002)
Trust: National Inst. Pub. Health	0.007	0.002	-0.006
9 1	(0.007)	(0.004)	(0.004)
Gender	-0.078	0.006	-0.026
	(0.097)	(0.057)	(0.146)
Age	0.012*	0.007**	0.006
	(0.006)	(0.002)	(0.006)
Secondary	-0.184	0.026	0.008
	(0.251)	(0.087)	(0.157)
Bachelor	-0.095	-0.091	-0.055
	(0.332)	(0.122)	(0.255)
Master and Higher	$-0.465^{+}$	-0.089	-0.187
	(0.242)	(0.106)	(0.169)
Married	0.305	0.010	0.175
	(0.385)	(0.068)	(0.181)
Cohabitation	$0.452^{+}$	0.047	0.131
	(0.242)	(0.036)	(0.179)
Divorced	0.052	0.026	0.092
	(0.427)	(0.092)	(0.253)
Widow	0.604	0.014	$0.998^{+}$
	(0.541)	(0.124)	(0.576)
Has children	0.028	-0.072*	0.015
	(0.172)	(0.030)	(0.152)
Housewife	-0.889 <sup>+</sup>	0.032	-0.250
	(0.491)	(0.070)	(0.208)
Other	-0.576	-0.129	-0.127
	(0.355)	(0.079)	(0.223)
Employed	-0.501	-0.036	-0.388
1 0	(0.368)	(0.070)	(0.251)
Retired	-0.153	-0.150	-1.109*
	(0.478)	(0.093)	(0.505)
Student	-0.363	-0.073	-0.292
	(0.286)	(0.094)	(0.177)
Math skills	-0.029	0.120	-0.015
	(0.179)	(0.112)	(0.178)
LR scale	-0.008	0.006	0.090**
	(0.026)	(0.013)	(0.033)
Outbreak areas	0.019	0.024	0.251*
	(0.114)	(0.051)	(0.103)
Lombardy	0.061	-0.030	-0.134
	(0.244)	(0.051)	(0.171)
Veneto	0.039	-0.117+	-0.087
, choo	(0.234)	(0.069)	(0.165)
Latitude	-0.079	0.020	-0.007
Latitude	(0.062)	(0.020)	-0.007 (0.045)
Constant	(0.062) 10.803***	(0.020) 8.238***	(0.045) 7.814***
Constant			
NT	(2.691)	(0.927)	(2.013)
N.	763.000	762.000	762.000
$R^2$	0.181	0.066	0.206

Table S22: Relationship between holding wrong beliefs and support for containment measures (Weighted)

	(1)	(2)	(3)
	Social distancing: non-positive	Isolation: positive	Social distancing: elderl
	b/se	b/se	b/se
How wrong (mean)	-0.247**	-0.021	-0.191
T	(0.072)	(0.019)	(0.126)
Frust: science	0.013	0.003	0.014+
T	(0.009)	(0.004)	(0.007)
Trust: national government	-0.002	0.001	0.009*
T	(0.003)	(0.001)	(0.004)
Trust: regional government	0.006*	-0.000	0.001
	(0.003)	(0.001)	(0.002)
Trust: National Inst. Pub. Health	0.005	0.002	-0.008*
G 1	(0.007)	(0.004)	(0.004)
Gender	-0.051	0.008	-0.003
	(0.098)	(0.057)	(0.157)
Age	0.008	0.006**	0.004
	(0.007)	(0.002)	(0.006)
Secondary	-0.130	0.040	-0.014
	(0.264)	(0.089)	(0.140)
Bachelor	-0.070	-0.083	-0.073
	(0.323)	(0.123)	(0.232)
Master and Higher	-0.450	-0.074	$-0.261^{+}$
	(0.269)	(0.107)	(0.153)
Married	0.332	0.016	0.174
	(0.406)	(0.071)	(0.192)
Cohabitation	$0.438^{+}$	0.053	0.075
	(0.258)	(0.039)	(0.169)
Divorced	0.122	0.038	0.110
	(0.449)	(0.093)	(0.270)
Widow	0.386	0.000	0.800
	(0.549)	(0.138)	(0.483)
Has children	0.092	-0.069*	0.082
	(0.170)	(0.032)	(0.182)
Housewife	-0.944*	0.032	-0.318
	(0.451)	(0.074)	(0.259)
Other	-0.658+	-0.138 <sup>+</sup>	-0.177
	(0.355)	(0.078)	(0.254)
Employed	-0.498	-0.034	-0.395
zinpio, od	(0.370)	(0.069)	(0.247)
Retired	-0.087	-0.147	-1.040*
	(0.416)	(0.092)	(0.420)
Student	-0.410	-0.074	-0.349 <sup>+</sup>
stadoni	(0.281)	(0.096)	(0.186)
Math skills	0.062	0.131	0.036
State Skills	(0.170)	(0.113)	(0.156)
LR scale	-0.006	0.007	0.088**
Bit scare	(0.024)	(0.013)	(0.032)
Outbreak areas	-0.059	0.013	0.220*
Outbreak areas	(0.125)	(0.051)	(0.087)
Lombardy	0.133	-0.025	-0.073
Lombardy	(0.234)	(0.053)	(0.145)
Vanata	. ,	, ,	, ,
Veneto	0.047	-0.113	-0.100
1.44 1.	(0.226)	(0.068)	(0.162)
Latitude	-0.090	0.021	-0.021
<b>a</b>	(0.059)	(0.021)	(0.038)
Constant	11.746***	8.193***	9.332***
	(2.536)	(0.991)	(1.660)
N.	763.000	762.000	762.000
$R^2$	0.198	0.064	0.233

Table S23: Treatment effects: Information by experts, weighted

	(1) Willing to undate: Vouths (d)	(2) Willing to update: Antibiotics (d)	(3) Willing to undate: Percels (d)	(4) Willing to undate: Hands (d
	b/se	b/se	b/se	b/se
I. C				
Info: experts	-0.116*	0.092	-0.127*	-0.023
TD	(0.056)	(0.071)	(0.048)	(0.057)
Trust: science	0.005	0.006**	0.004	-0.001
	(0.003)	(0.002)	(0.003)	(0.003)
Trust: national government	0.002	0.003*	-0.002	-0.004
	(0.001)	(0.001)	(0.002)	(0.003)
Trust: regional government	-0.000	-0.003**	0.001	-0.001
	(0.001)	(0.001)	(0.001)	(0.002)
Trust: National Inst. Pub. Health	-0.004	0.000	0.001	0.001
	(0.003)	(0.002)	(0.002)	(0.003)
Gender	-0.067	-0.022	-0.065	-0.063
	(0.061)	(0.060)	(0.043)	(0.059)
Age	0.002	0.002	0.008**	-0.008 <sup>+</sup>
	(0.004)	(0.004)	(0.003)	(0.005)
Secondary	-0.181*	0.088	-0.401***	-0.108
	(0.079)	(0.105)	(0.094)	(0.103)
Bachelor	-0.190 <sup>+</sup>	0.142	-0.346*	-0.213 <sup>+</sup>
	(0.105)	(0.113)	(0.137)	(0.117)
Master and Higher	-0.171*	0.182	-0.492***	-0.166
_	(0.064)	(0.137)	(0.117)	(0.101)
Married	-0.091	0.017	0.016	0.168
	(0.100)	(0.126)	(0.106)	(0.131)
Cohabitation	-0.060	0.008	0.162*	0.090
	(0.118)	(0.106)	(0.063)	(0.085)
Divorced	0.095	0.290	0.287*	0.154
Difforcod	(0.176)	(0.182)	(0.109)	(0.136)
Widow	0.866***	-0.056	-0.359 <sup>+</sup>	0.000
Widow	(0.155)	(0.181)	(0.203)	(.)
Has children	0.071	0.109	-0.012	-0.020
rias cinicien	(0.083)	(0.092)	(0.095)	(0.094)
Housewife	-0.136	0.113	-0.646**	-0.248 <sup>+</sup>
nousewne				
Oul	(0.189)	(0.157)	(0.188)	(0.147)
Other	0.134	-0.362***	-0.146	-0.227
	(0.188)	(0.100)	(0.217)	(0.139)
Employed	-0.116 <sup>+</sup>	0.053	-0.095	-0.170
D	(0.067)	(0.104)	(0.082)	(0.123)
Retired	-0.002	-0.343*	-0.086	0.285
	(0.080)	(0.144)	(0.137)	(0.214)
Student	-0.077	0.424**	-0.007	-0.172
	(0.092)	(0.135)	(0.094)	(0.126)
Math skills	0.421***	0.393***	-0.266*	0.147
	(0.100)	(0.077)	(0.124)	(0.102)
LR scale	0.033**	$0.026^{+}$	0.038***	0.005
	(0.010)	(0.014)	(0.009)	(0.016)
Outbreak areas	-0.007	0.127	-0.025	-0.011
	(0.069)	(0.105)	(0.036)	(0.061)
Lombardy	-0.370**	-0.176	-0.106	-0.020
	(0.108)	(0.107)	(0.089)	(0.073)
Veneto	-0.315**	-0.206 <sup>+</sup>	-0.129	-0.125
	(0.107)	(0.107)	(0.095)	(0.079)
Latitude	0.018	0.075*	-0.015	-0.015
	(0.031)	(0.031)	(0.036)	(0.019)
Constant	-0.938	-4.434**	0.721	1.454
Comment	(1.444)	(1.473)	(1.655)	(0.956)
N.	302.000	361.000	480.000	336.000
$R^2$	0.790	301.000	0.665	330.000

Table S24: Treatment effects: Information by experts

	(1)	(2)	(3)	(4)
			Willing to update: Parcels (d)	
To Comments	b/se	b/se	b/se	b/se
Info: experts	-0.098***	0.040	-0.044+	0.043
Trust: science	(0.026) -0.001	(0.056) 0.006*	(0.025) 0.003 <sup>+</sup>	(0.030) 0.002
11 ust: science	(0.002)	(0.002)	(0.001)	(0.002)
Trust: national government	0.002	-0.000	-0.001	-0.001
11 ust. national government	(0.002)	(0.002)	(0.001)	(0.001)
Trust: regional government	0.001	-0.001	-0.001	0.000
rrust. regional government	(0.001)	(0.001)	(0.001)	(0.001)
Trust: National Inst. Pub. Health	-0.003	-0.000	0.003+	-0.001
riuse. reacional mise. r ub. ricaren	(0.002)	(0.002)	(0.002)	(0.002)
Gender	-0.050	0.023	-0.050*	0.002)
Gender	(0.030)	(0.052)	(0.023)	(0.030)
Age	0.001	0.002	-0.001	-0.003
Age				
Z 1	(0.003)	(0.003)	(0.002)	(0.002)
Secondary	-0.059	0.067	-0.232	0.002
David alam	(0.092)	(0.144)	(0.142)	(0.147)
Bachelor	-0.047	0.114	-0.193	-0.074
M . 177.1	(0.091)	(0.139)	(0.142)	(0.149)
Master and Higher	-0.032	0.099	-0.236	-0.074
	(0.090)	(0.142)	(0.149)	(0.149)
Married	0.066	0.035	0.030	0.023
	(0.115)	(0.095)	(0.085)	(0.104)
Cohabitation	0.056	0.079	0.074	-0.034
	(0.097)	(0.101)	(0.051)	(0.040)
Divorced	0.173	0.178	0.330**	0.085
	(0.144)	(0.160)	(0.108)	(0.120)
Widow	0.920***	0.001	-0.089	0.000
	(0.127)	(0.127)	(0.162)	(.)
Has children	-0.099	0.006	0.043	0.023
	(0.085)	(0.091)	(0.081)	(0.084)
Housewife	0.075	-0.088	-0.327***	-0.163 <sup>+</sup>
	(0.214)	(0.198)	(0.093)	(0.087)
Other	0.060	-0.268	-0.096	-0.122
	(0.156)	(0.185)	(0.112)	(0.079)
Employed	0.037	-0.099	-0.106 <sup>+</sup>	-0.055
1 0	(0.058)	(0.084)	(0.055)	(0.070)
Retired	0.023	-0.400**	-0.094	0.189
	(0.159)	(0.116)	(0.132)	(0.119)
Student	0.045	0.158*	-0.064	-0.027
yeudene	(0.056)	(0.076)	(0.058)	(0.068)
Math skills	0.093	0.281**	-0.100	-0.032
Wideli SkiiiS	(0.073)	(0.087)	(0.089)	(0.124)
LR scale	0.000	0.024	0.005	-0.009
LIT Scale				
Outhrook areas	(0.009)	(0.015)	(0.009)	(0.006)
Outbreak areas	-0.021	0.089	0.133**	0.033
Combonder	(0.029)	(0.054)	(0.041)	(0.070)
Lombardy	-0.073	-0.120+	-0.020	0.008
17	(0.071)	(0.068)	(0.053)	(0.041)
Veneto	-0.101	-0.057	0.008	-0.012
	(0.073)	(0.079)	(0.057)	(0.046)
Latitude	-0.009	0.025	0.017	-0.030
	(0.021)	(0.028)	(0.015)	(0.026)
Constant	0.637	-1.763	-0.600	1.664
	(0.960)	(1.338)	(0.724)	(1.233)
N.	302.000	361.000	480.000	336.000
$R^2$	0.115	0.111	0.105	0.076

Table S25: Treatment effects: Information by experts, robustness

	(1) William to undate: Voutho (4)	(2) William to undeter Antibiotics (4)	(3) William to undate: Dancelo (d)	(4) William to undator Handa (d)
		Willing to update: Antibiotics (d)		
	b/se	b/se	b/se	b/se
Info: experts	-0.104***	0.037	-0.050+	0.041
	(0.024)	(0.055)	(0.026)	(0.031)
Trust: science	-0.001	0.006*	0.003+	0.002
T	(0.002)	(0.002)	(0.001)	(0.001)
Trust: national government	0.002	-0.000	-0.001	-0.001
T	(0.001)	(0.002)	(0.001)	(0.001)
Trust: regional government	0.001	-0.001	-0.000	0.000
	(0.001)	(0.001)	(0.001)	(0.001)
Trust: National Inst. Pub. Health	-0.003	-0.000	0.003+	-0.001
	(0.002)	(0.002)	(0.002)	(0.002)
Gender	-0.053 <sup>+</sup>	0.028	-0.047*	0.006
	(0.030)	(0.054)	(0.022)	(0.029)
Age	0.002	0.002	-0.001	-0.003
	(0.003)	(0.003)	(0.002)	(0.002)
Secondary	-0.063	0.060	-0.221	-0.001
	(0.089)	(0.140)	(0.141)	(0.149)
Bachelor	-0.050	0.110	-0.176	-0.074
	(0.092)	(0.137)	(0.143)	(0.152)
Master and Higher	-0.030	0.090	-0.224	-0.077
_	(0.089)	(0.136)	(0.148)	(0.152)
Married	0.061	0.037	0.037	0.024
	(0.110)	(0.096)	(0.081)	(0.102)
Cohabitation	0.056	0.084	0.067	-0.035
Condition	(0.094)	(0.102)	(0.053)	(0.040)
Divorced	0.133	0.187	0.329**	0.086
Divorced	(0.141)	(0.162)	(0.106)	(0.117)
Widow	0.892***	0.010	-0.066	0.000
WIGOW				
O 1.21 Jan	(0.119)	(0.126)	(0.157)	(.)
Has children	-0.113	0.005	0.047	0.023
**	(0.080)	(0.093)	(0.081)	(0.084)
Housewife	0.095	-0.079	-0.299**	-0.158
	(0.199)	(0.198)	(0.095)	(0.097)
Other	0.023	-0.274	-0.112	-0.115
	(0.163)	(0.182)	(0.112)	(0.080)
Employed	0.032	-0.099	-0.109*	-0.052
	(0.055)	(0.083)	(0.054)	(0.072)
Retired	-0.001	-0.408***	-0.104	0.196
	(0.145)	(0.116)	(0.131)	(0.118)
Student	0.042	0.161*	-0.065	-0.026
	(0.053)	(0.079)	(0.057)	(0.069)
Math skills	0.054	0.282**	-0.100	-0.029
	(0.068)	(0.086)	(0.089)	(0.127)
LR scale	0.001	0.023	0.005	-0.009
	(0.009)	(0.016)	(0.009)	(0.006)
Distance from outbreak areas	-0.001***	-0.000	-0.000	0.000
mon outdone on out	(0.000)	(0.000)	(0.000)	(0.000)
Lombardy	-0.119 <sup>+</sup>	-0.115 <sup>+</sup>	-0.013	0.017
Lomouray	(0.062)	(0.068)	(0.056)	(0.044)
Veneto	-0.091	-0.056	0.019	-0.015
venero		(0.082)		
Latituda	(0.055)		(0.057)	(0.048)
Latitude	-0.106***	0.014	-0.015	-0.019
	(0.030)	(0.049)	(0.034)	(0.033)
Constant	5.269***	-1.219	0.895	1.126
	(1.492)	(2.324)	(1.621)	(1.597)
N.	302.000	361.000	480.000	336.000
$R^2$	0.144	0.109	0.100	0.075

Table S26: Treatment effects: Information by experts, robustness (weighted)

	(1)	(2)	(3)	(4)
	Willing to update: Youths (d)	Willing to update: Antibiotics (d)	Willing to update: Parcels (d)	
	b/se	b/se	b/se	b/se
Info: experts (d)	-0.255*	0.060	-0.401***	0.003
	(0.113)	(0.058)	(0.072)	(0.021)
Trust: science	0.009	0.008**	0.006	-0.001
	(0.009)	(0.003)	(0.005)	(0.001)
Trust: national government	0.001	0.004*	-0.004	-0.001*
	(0.003)	(0.002)	(0.004)	(0.001)
Trust: regional government	0.003	-0.004**	0.002	-0.000
	(0.003)	(0.001)	(0.003)	(0.001)
Trust: National Inst. Pub. Health	-0.007	-0.001	$0.010^{+}$	0.000
	(0.005)	(0.002)	(0.006)	(0.001)
Gender (d)	-0.095	0.017	-0.199	-0.045*
	(0.148)	(0.052)	(0.125)	(0.021)
Age	0.007	0.003	0.007	-0.007*
	(0.009)	(0.004)	(0.008)	(0.003)
Secondary (d)	-0.215*	0.035	-0.730***	-0.006
	(0.098)	(0.121)	(0.130)	(0.031)
Bachelor (d)	-0.184**	0.129	-0.397***	-0.042 <sup>+</sup>
. ,	(0.064)	(0.180)	(0.075)	(0.022)
Master and Higher (d)	-0.173 <sup>+</sup>	0.210	-0.589***	-0.041 <sup>+</sup>
3 ( /	(0.098)	(0.189)	(0.104)	(0.022)
Married (d)	-0.418	0.012	0.255	0.115 <sup>+</sup>
	(0.323)	(0.133)	(0.269)	(0.068)
Cohabitation (d)	-0.152	0.060	0.409**	0.009
(-)	(0.172)	(0.118)	(0.131)	(0.047)
Divorced (d)	0.006	0.405	0.658***	0.297
	(0.308)	(0.307)	(0.118)	(0.272)
Has children (d)	0.053	0.057	-0.041	0.015
(4)	(0.188)	(0.111)	(0.168)	(0.045)
Housewife (d)	0.309	0.207	(01200)	(0.0.20)
(-)	(0.775)	(0.265)		
Other (d)	0.581*	-0.179***	-0.311***	
	(0.287)	(0.038)	(0.094)	
Employed (d)	0.011	-0.011	-0.335**	-0.077
	(0.221)	(0.099)	(0.129)	(0.047)
Retired (d)	0.076	(0.000)	-0.405*	0.596**
(4)	(0.305)		(0.166)	(0.218)
Student (d)	0.035	0.534*	-0.294*	-0.047*
	(0.231)	(0.220)	(0.143)	(0.024)
Math skills (d)	0.268***	0.241***	-0.189	0.036
man same (a)	(0.072)	(0.046)	(0.197)	(0.030)
LR scale	0.046	0.050**	0.092***	0.009+
	(0.032)	(0.018)	(0.020)	(0.005)
Outbreak areas (d)	-0.149*	-0.054	-0.301***	-0.030 <sup>+</sup>
(-)	(0.075)	(0.069)	(0.075)	(0.018)
Lombardy (d)	-0.484*	-0.176	-0.122	0.058
J (4)	(0.189)	(0.111)	(0.197)	(0.040)
Veneto (d)	-0.246**	-0.148**	-0.312*	0.012
· cacco (a)	(0.087)	(0.056)	(0.133)	(0.058)
Latitude	0.042	0.145*	0.001	-0.002
Baereacc	(0.046)	(0.060)	(0.056)	(0.015)
N.	302.000	352.000	472.000	325.000

Weighted Logit (marginal effects). Standard errors clustered at the province-level reported in parentheses. Covariates as described in Table S7. + p < 0.10, \* p < 0.05 , \* p < 0.01, \* p < 0.001

Table S27: Treatment effects: Information by experts, interactions, weighted

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Willing	o update:			
Youths	Antibiotics	Parcels	Hands	Youths	Antibiotics	Parcels	Hands
b/se	b/se	b/se	b/se	b/se	b/se	b/se	b/se
-0.049	0.489	-0.593	0.189	-0.348**	0.177	-0.157*	-0.032
(0.378)	(0.533)	(0.408)	(0.336)	(0.101)	(0.125)	(0.069)	(0.089)
0.005	0.009*	0.001	0.000	0.003	0.007**	0.003	-0.000
(0.005)	(0.004)	(0.005)	(0.003)	(0.003)	(0.002)	(0.003)	(0.003)
-0.001	-0.005	0.005	-0.002				
(0.004)	(0.006)	(0.005)	(0.004)				
				-0.002***	0.001	-0.001	0.000
				(0.001)	(0.001)	(0.001)	(0.001)
				0.001**	-0.001	0.000	0.000
				(0.000)	(0.001)	(0.000)	(0.000)
-0.758	-4.538**	0.806	$1.508^{+}$	8.557***	-8.191*	3.965	-0.381
(1.357)	(1.594)	(1.662)	(0.846)	(2.102)	(3.416)	(2.566)	(2.588)
<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
303.000	362.000	481.000	339.000	303.000	362.000	481.000	339.000
0.782	0.361	0.658	0.306	0.806	0.369	0.661	0.308
	Youths b/se $-0.049$ (0.378) 0.005 (0.005) $-0.001$ (0.004) $-0.758$ (1.357) $\checkmark$ 303.000	$ \begin{array}{c cccc} \text{Youths} & \text{Antibiotics} \\ \text{b/se} & \text{b/se} \\ -0.049 & 0.489 \\ (0.378) & (0.533) \\ 0.005 & 0.009^* \\ (0.005) & (0.004) \\ -0.001 & -0.005 \\ (0.004) & (0.006) \\ \hline \\ -0.758 & -4.538^{**} \\ (1.357) & (1.594) \\ \hline \checkmark & \checkmark \\ \hline \\ 303.000 & 362.000 \\ \hline \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				

Figure S14: Support for containment policies: Standardized Coefficients and weighted regression

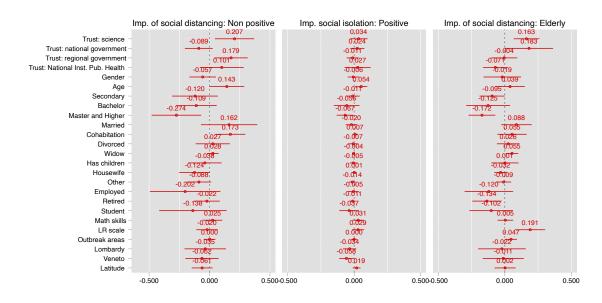


Figure S15: Determinants of wrong beliefs: Standardized Coefficients and weighted regression

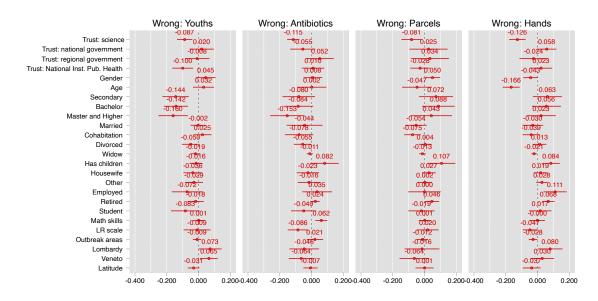


Table S28: Trust and perceived importance of social distancing measures: Only Lombardy with actual number of infected

	(1)	(2)	(3)
	Social distancing: non-positive b/se	-	Social distancing: elderly b/se
Trust: science	0.014	b/se 0.004	0.013*
Trust. science			
Twist, national government	(0.009) -0.003	(0.003) -0.000	(0.005) $0.014*$
Trust: national government			
	(0.004)	(0.002)	(0.005)
Trust: regional government	0.007	-0.001	-0.003
T . N	(0.004)	(0.001)	(0.003)
Trust: National Inst. Pub. Health	0.005	0.003	-0.003
	(0.009)	(0.003)	(0.005)
Gender	-0.040	0.006	0.143
	(0.133)	(0.027)	(0.269)
Age	-0.002	0.005	-0.001
	(0.009)	(0.003)	(0.006)
Secondary	$-0.436^{+}$	-0.033	-0.105
	(0.200)	(0.032)	(0.082)
Bachelor	-0.159	-0.011	0.026
	(0.271)	(0.056)	(0.276)
Master and Higher	-0.732*	-0.106*	-0.259
	(0.242)	(0.037)	(0.153)
Married	$0.866^{+}$	0.016	0.448*
	(0.416)	(0.070)	(0.177)
Cohabitation	0.669**	0.012	0.323+
	(0.168)	(0.040)	(0.158)
Divorced	0.302	0.009	0.122
21101000	(0.603)	(0.136)	(0.389)
Widow	0.503	0.061	0.119
7714077	(0.507)	(0.140)	(0.310)
Has children	-0.264	-0.020	-0.047
rias ciniaren	(0.186)	(0.036)	(0.146)
Housewife	-0.479	0.027	-0.305
Housewife	(0.423)	(0.035)	(0.230)
Other	-0.775 <sup>+</sup>	-0.101	-0.282
Other		(0.116)	
Employed	(0.391)	\ /	(0.277)
Employed	-0.721 <sup>+</sup>	0.055+	-0.330
D .: 1	(0.354)	(0.026)	(0.231)
Retired	-0.296	-0.142	-1.502*
Cu. 1	(0.611)	(0.097)	(0.663)
Student	-0.755 <sup>+</sup>	0.085	-0.396
	(0.370)	(0.051)	(0.273)
Math skills	-0.280+	0.035	-0.409
	(0.145)	(0.068)	(0.287)
LR scale	-0.015	0.010	0.067*
	(0.024)	(0.006)	(0.024)
Tot. cum. cases	0.012**	-0.004	0.002
	(0.003)	(0.003)	(0.006)
Constant	8.561***	9.197***	8.290***
	(0.487)	(0.395)	(0.322)
N.	454.000	454.000	454.000
$R^2$	0.201	0.096	0.325

Table S29: Trust and wrong beliefs: Only Lombardy with actual number of infected

	(1)	(2)	(3)	(4)
	Wrong: Youths	Wrong: Antibiotics	Wrong: Parcels	Wrong: Hand
	b/se	b/se	b/se	b/se
Trust: science	$-0.004^{+}$	-0.011***	-0.002	-0.006**
	(0.002)	(0.002)	(0.003)	(0.002)
Trust: national government	-0.001	-0.003	-0.003	$0.003^{+}$
	(0.002)	(0.003)	(0.002)	(0.001)
Trust: regional government	-0.001	0.002	0.004*	-0.003
	(0.002)	(0.002)	(0.002)	(0.002)
Trust: National Inst. Pub. Health	-0.005*	0.001	-0.001	0.002
	(0.002)	(0.002)	(0.002)	(0.002)
Gender	0.086	0.067	0.217***	-0.091
	(0.109)	(0.070)	(0.041)	(0.057)
Age	0.009*	0.003	-0.004	-0.010**
	(0.003)	(0.004)	(0.004)	(0.003)
Secondary	-0.320 <sup>+</sup>	-0.095	0.171	0.112
v	(0.151)	(0.143)	(0.148)	(0.103)
Bachelor	-0.272	-0.198	0.167	0.005
	(0.156)	(0.150)	(0.171)	(0.121)
Master and Higher	-0.226	-0.271	0.097	-0.001
	(0.145)	(0.177)	(0.167)	(0.112)
Married	-0.019	-0.283	-0.192	-0.022
With the control of t	(0.090)	(0.178)	(0.112)	(0.106)
Cohabitation	0.054	-0.302	-0.193	-0.038
Collabitation	(0.083)	(0.175)	(0.110)	(0.082)
Divorced	-0.117	-0.366+	0.147	0.115
Divorced	(0.211)	(0.177)	(0.136)	(0.140)
Widow	0.006	-0.597***	-0.651*	-0.182
Widow	(0.500)	(0.111)	(0.225)	(0.176)
Has children	-0.087	0.111)	0.471***	0.200*
nas cilidren				
Housewife	(0.103)	(0.137)	(0.086)	(0.085)
Housewife	-0.494	-0.286	0.123	-0.106
0/1	(0.275)	(0.250)	(0.190)	(0.128)
Other	-0.329	-0.019	0.086	0.203
D 1 1	(0.278)	(0.220)	(0.084)	(0.171)
Employed	-0.255+	0.205*	0.008	0.240+
D 1	(0.129)	(0.084)	(0.081)	(0.112)
Retired	-0.302	0.305+	0.290	0.636***
	(0.234)	(0.165)	(0.165)	(0.131)
Student	-0.107	-0.097	-0.089	0.119
	(0.146)	(0.124)	(0.070)	(0.100)
Math skills	0.109	0.539***	0.081	0.266*
	(0.154)	(0.110)	(0.134)	(0.116)
LR scale	-0.009	-0.020	0.018	-0.000
	(0.017)	(0.022)	(0.012)	(0.011)
Tot. cum. cases	0.005	0.004	-0.001	-0.005
	(0.004)	(0.003)	(0.005)	(0.003)
Constant	1.402***	1.121**	0.532	$0.592^{+}$
	(0.274)	(0.353)	(0.418)	(0.286)
N.	454.000	380.000	451.000	454.000
$R^2$	0.328	0.323	0.318	0.321

Figure S16: Support for containment and wrong beliefs: Standardized Coefficients and weighted regression

