**Online Appendix**

*Big-5 Personality Traits and their Dynamic and Conditional Effects on COVID-19 Attitudes and Behaviours*

Table S1. Variable descriptions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variable** | **Description** | **Mean** | **SD** | **Min** | **Max** |
| Risk perceptions | 1) How serious of a threat do you think the coronavirus (COVID-19) is to yourself? 2) How serious of a threat do you think the coronavirus (COVID-19) is to Canadians? Very serious, somewhat serious, not very serious, not at all serious; 0-1 scale | 0.68 | 0.25 | 0 | 1 |
| Protective behaviours | Over the past week, which of the following actions have you taken as a result of the coronavirus pandemic? Please select all that apply; 1) | 0.70 | 0.34 | 0 | 1 |
| Lockdown support | To what extent would you agree or disagree with the following statements? 1) "The Canadian border should be open to non-essential travel" (reverse coded); 2) "Non-essential businesses should be allowed to open their doors to the general public" (reverse coded); 3) “There should be fines for people attending public gatherings of more than five people”; strongly agree, somewhat agree, neither agree nor disagree, somewhat disagree, strongly disagree | 0.61 | 0.24 | 0 | 1 |
| Extraversion | 1) Tends to be quiet (reverse); 2) Is dominant, acts as a leader; 3) Is full of energy; 4) Is outgoing, sociable; 5) Prefers to have others take charge (reverse); 6) Is less active than other people (reverse); disagree strongly, disagree a little, neutral, agree a little, agree a lot; 0-1 scale | 0.51 | 0.17 | 0 | 1 |
| Negative emotionality | 1) Worries a lot; 2) Tends to feel depressed, blue; 3) Is emotionally stable, not easily upset (reverse); 4) Is relaxed, handles stress well (reverse); 5) Feels secure, comfortable with self (reverse); 6) Is temperamental, gets emotional easily; disagree strongly, disagree a little, neutral, agree a little, agree a lot; 0-1 scale | 0.41 | 0.20 | 0 | 1 |
| Conscientiousness | 1) Tends to be disorganized (reverse); 2) Has difficulty getting started on tasks (reverse); 3) Is reliable, can always be counted on; 4) Keeps things neat and tidy; 5) Is persistent, works until the task is finished; 6) Can be somewhat careless (reverse); disagree strongly, disagree a little, neutral, agree a little, agree a lot; 0-1 scale | 0.68 | 0.18 | 0 | 1 |
| Openness | 1) Is fascinated by art, music, or literature; 2) Has little interest in abstract ideas (reverse); 3) Is original, comes up with new ideas; 4) Has few artistic interests (reverse); 5) Is complex, a deep thinker; 6) Has little creativity (reverse); disagree strongly, disagree a little, neutral, agree a little, agree a lot; 0-1 scale | 0.59 | 0.16 | 0 | 1 |
| Agreeableness | 1) Is compassionate, has a soft heart; 2) Is sometimes rude to others (reverse); 3) Assumes the best about people; 4) Can be cold and uncaring (reverse); 5) Is respectful, treats others with respect; 6) Tends to find fault with others (reverse); disagree strongly, disagree a little, neutral, agree a little, agree a lot; 0-1 scale | 0.67 | 0.17 | 0 | 1 |
| Ideology (linear) | 0-10 left-right self-placement scale | 5.25 | 2.24 | 0 | 10 |
| Conspiratorial thinking | 1) Much of our lives are being controlled by plots hatched in secret places; 2) Even though we live in a democracy, a few people will always run things anyway; 3) The people who really ‘run’ the country are not known to the voter; 4) Big events like wars, recessions, and the outcomes of elections are controlled by small groups of people who are working in secret against the rest of us (strongly agree, somewhat agree, neither agree nor disagree, somewhat disagree, strongly disagree) | 0.47 | 0.25 | 0 | 1 |
| Science literacy | 1) The center of the Earth is very hot (True); 2) The continents have been moving their location for millions of years and will continue to move (True); 3) All radio-activity is man-made (False); 4) Electrons are smaller than atoms (True); 5) Lasers work by focusing sound waves (False); 6) It is the father’s gene that decides whether the baby is a boy or a girl (True); 7) Antibiotics kill viruses as well as bacteria (False). | 0.63 | 0.26 | 0 | 1 |
| Social trust | Generally speaking, would you say that most people can be trusted or that you cannot be too careful in dealing with people?” (Most people can be trusted/cannot be too careful in dealing with people) | 0.54 | 0.50 | 0 | 1 |
| Government distrust | To what degree do you trust or distrust the following groups? 1) Federal government; 2) Your provincial government (strongly trust, somewhat trust, neither trust nor distrust, somewhat distrust, strongly distrust) | 0.44 | 0.26 | 0 | 1 |
| Religiosity | In your life, you would say religion is: very important, somewhat important, not very important, not at all important, don’t know | 1.24 | 1.13 | 0 | 3 |
| Education | 1) No schooling; 2) Some elementary school; 3) Completed elementary school; 4) Some secondary/high school; 5) Completed secondary/high school; 6) Some technical, community college, CEGEP, College Classique; 7) Completed technical, community college, CEGEP, College Classique; 8) Some university; 9) Bachelor's degree; 10) Master's degree; 11) Professional degree or doctorate; 12) Don't know (excluded) | 7.2 | 2.0 | 1 | 11 |
| Income | Total household income: 1) None; 2) $1-30,000; 3) $30,001-60,000; 4) $60,001-90,000; 5) $90,001-110,000; 6) $110,001-150,000; 7) $150,001-200,000; 8) More than $200,000; 9) Don't know, prefer not to answer (excluded) | 3.1 | 1.7 | 0 | 7 |
| Age | In years | 48 | 16 | 18 | 100 |
| Female | 1=female; 0=otherwise | 0.52 | 0.50 | 0 | 1 |
| Region | 1=Atlantic; 2=Quebec; 3=Ontario; 4=West | 3 | 0.9 | 1 | 4 |
| Vaccination Rate | Number of COVID-19 vaccines per 100 Canadians | 20.9 | 23.1 | 0 | 68.1 |
| COVID-19 Cases | Number of daily COVID-19 cases | 4175 | 2168 | 505 | 9570 |

Table S2. Mean and Cronbach’s alpha scores for BFI-2 over time

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Wave | Extraversion | Openness | Conscientiousness | Agreeableness | Negativity |
| Mean | Reliability | Mean | Reliability | Mean | Reliability | Mean | Reliability | Mean | Reliability |
| 29 | 0.50 | 0.67 | 0.59 | 0.59 | 0.68 | 0.75 | 0.67 | 0.72 | 0.42 | 0.81 |
| 30 | 0.50 | 0.65 | 0.58 | 0.61 | 0.69 | 0.77 | 0.67 | 0.73 | 0.41 | 0.80 |
| 31 | 0.50 | 0.63 | 0.59 | 0.59 | 0.69 | 0.76 | 0.68 | 0.75 | 0.41 | 0.79 |
| 32 | 0.51 | 0.63 | 0.60 | 0.59 | 0.68 | 0.76 | 0.68 | 0.72 | 0.42 | 0.80 |
| 33 | 0.51 | 0.63 | 0.59 | 0.59 | 0.68 | 0.75 | 0.67 | 0.72 | 0.42 | 0.80 |
| 34 | 0.51 | 0.67 | 0.59 | 0.61 | 0.68 | 0.77 | 0.67 | 0.75 | 0.41 | 0.81 |
| 35 | 0.51 | 0.69 | 0.59 | 0.65 | 0.69 | 0.78 | 0.66 | 0.75 | 0.40 | 0.82 |
| 36 | 0.50 | 0.65 | 0.59 | 0.61 | 0.68 | 0.77 | 0.66 | 0.74 | 0.41 | 0.81 |
| 37 | 0.50 | 0.64 | 0.59 | 0.61 | 0.68 | 0.76 | 0.67 | 0.76 | 0.42 | 0.81 |
| 38 | 0.51 | 0.62 | 0.59 | 0.58 | 0.68 | 0.76 | 0.66 | 0.72 | 0.41 | 0.81 |
| 39 | 0.50 | 0.67 | 0.60 | 0.63 | 0.67 | 0.76 | 0.67 | 0.74 | 0.42 | 0.83 |
| 40 | 0.51 | 0.64 | 0.58 | 0.61 | 0.68 | 0.76 | 0.67 | 0.72 | 0.41 | 0.80 |
| 41 | 0.51 | 0.65 | 0.58 | 0.63 | 0.69 | 0.75 | 0.67 | 0.75 | 0.41 | 0.80 |
| 42 | 0.51 | 0.69 | 0.59 | 0.61 | 0.69 | 0.77 | 0.67 | 0.74 | 0.41 | 0.82 |
| 43 | 0.52 | 0.59 | 0.59 | 0.57 | 0.67 | 0.73 | 0.66 | 0.71 | 0.42 | 0.78 |
| 44 | 0.51 | 0.63 | 0.60 | 0.59 | 0.68 | 0.75 | 0.67 | 0.72 | 0.41 | 0.79 |
| 45 | 0.51 | 0.62 | 0.59 | 0.56 | 0.68 | 0.76 | 0.67 | 0.71 | 0.41 | 0.79 |
| 46 | 0.51 | 0.66 | 0.59 | 0.64 | 0.69 | 0.77 | 0.67 | 0.73 | 0.40 | 0.82 |
| 47 | 0.50 | 0.64 | 0.59 | 0.59 | 0.68 | 0.75 | 0.66 | 0.72 | 0.42 | 0.80 |
| 48 | 0.51 | 0.61 | 0.59 | 0.58 | 0.68 | 0.76 | 0.66 | 0.71 | 0.41 | 0.78 |
| 49 | 0.50 | 0.61 | 0.59 | 0.59 | 0.66 | 0.75 | 0.65 | 0.70 | 0.42 | 0.79 |
| 50 | 0.50 | 0.64 | 0.60 | 0.63 | 0.68 | 0.77 | 0.66 | 0.74 | 0.41 | 0.80 |

Table S3. Pooled estimates, OLS

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Risk Perceptions** | **Protective Behaviour** | **Lockdown Beliefs** |
|  | Coef. | SE | Coef. | SE | Coef. | SE |
| Negativity | 0.161\*\*\* | 0.009 | 0.091\*\*\* | 0.007 | 0.075\*\*\* | 0.009 |
| Conscientiousness | 0.014 | 0.009 | 0.164\*\*\* | 0.007 | 0.085\*\*\* | 0.009 |
| Agreeableness | 0.095\*\*\* | 0.008 | 0.161\*\*\* | 0.007 | 0.086\*\*\* | 0.008 |
| Extraversion | -0.003 | 0.008 | -0.093\*\*\* | 0.006 | -0.106\*\*\* | 0.008 |
| Openness | 0.039\*\*\* | 0.007 | 0.104\*\*\* | 0.006 | 0.063\*\*\* | 0.008 |
| Education | 0.007\* | 0.004 | 0.065\*\*\* | 0.003 | 0.029\*\*\* | 0.003 |
| Income | 0.022\*\*\* | 0.005 | 0.002 | 0.004 | 0.006 | 0.004 |
| Age | 0.006\*\*\* | 0.000 | 0.015\*\*\* | 0.000 | 0.010\*\*\* | 0.000 |
| Female | 0.007 | 0.015 | 0.081\*\*\* | 0.013 | 0.011 | 0.014 |
| Quebec | -0.371\*\*\* | 0.031 | 0.044 | 0.025 | -0.216\*\*\* | 0.028 |
| Ontario | 0.023 | 0.030 | 0.177\*\*\* | 0.024 | 0.010 | 0.027 |
| West | -0.097\*\* | 0.031 | 0.178\*\*\* | 0.025 | -0.049 | 0.027 |
| Constant | -0.213\*\*\* | 0.049 | -1.312\*\*\* | 0.041 | -0.526\*\*\* | 0.045 |
| N | 38570 | 38570 | 38570 |
| R2 | 0.060 | 0.217 | 0.112 |

Note: Respondent cluster-robust standard errors in parentheses. Wave fixed effects not shown; \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

Table S4. Pooled estimates by protective behaviour, OLS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Index** | **Travel** | **Contact** | **Distance** | **Stay home** | **Mask** |
| Negativity | 0.091\*\*\* | 0.029\*\*\* | 0.024\*\*\* | 0.037\*\*\* | 0.031\*\*\* | 0.036\*\*\* |
|  | (0.007) | (0.004) | (0.004) | (0.003) | (0.003) | (0.003) |
| Conscientiousness | 0.164\*\*\* | 0.053\*\*\* | 0.046\*\*\* | 0.065\*\*\* | 0.044\*\*\* | 0.073\*\*\* |
|  | (0.007) | (0.004) | (0.004) | (0.003) | (0.003) | (0.003) |
| Agreeableness | 0.161\*\*\* | 0.053\*\*\* | 0.053\*\*\* | 0.064\*\*\* | 0.047\*\*\* | 0.060\*\*\* |
|  | (0.007) | (0.003) | (0.004) | (0.003) | (0.003) | (0.003) |
| Extraversion | -0.093\*\*\* | -0.019\*\*\* | -0.034\*\*\* | -0.039\*\*\* | -0.028\*\*\* | -0.039\*\*\* |
|  | (0.006) | (0.003) | (0.003) | (0.003) | (0.003) | (0.002) |
| Openness | 0.104\*\*\* | 0.035\*\*\* | 0.035\*\*\* | 0.037\*\*\* | 0.036\*\*\* | 0.037\*\*\* |
|  | (0.006) | (0.003) | (0.003) | (0.002) | (0.003) | (0.002) |
| N | 38570 | 38570 | 38570 | 38570 | 38570 | 38570 |
| R2 | 0.22 | 0.13 | 0.10 | 0.19 | 0.09 | 0.20 |

Note: Respondent cluster-robust standard errors in parentheses. Wave fixed effects and controls not shown; \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

Table S5. Pooled estimates by lockdown policy, OLS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Index** | **Gatherings** | **Borders** | **Closures** |
| Negativity  | 0.075\*\*\* | 0.065\*\*\* | 0.084\*\*\* | 0.014 |
|  | (0.009) | (0.009) | (0.008) | (0.009) |
| Conscientiousness | 0.085\*\*\* | 0.089\*\*\* | 0.125\*\*\* | -0.032\*\*\* |
|  | (0.009) | (0.008) | (0.008) | (0.008) |
| Agreeableness | 0.086\*\*\* | 0.067\*\*\* | 0.108\*\*\* | 0.011 |
|  | (0.008) | (0.008) | (0.008) | (0.008) |
| Extraversion | -0.106\*\*\* | -0.066\*\*\* | -0.117\*\*\* | -0.047\*\*\* |
|  | (0.008) | (0.008) | (0.007) | (0.008) |
| Openness | 0.063\*\*\* | 0.026\*\*\* | 0.070\*\*\* | 0.041\*\*\* |
|  | (0.008) | (0.007) | (0.007) | (0.007) |
| N | 38570 | 38570 | 38570 | 38570 |
| R2 | 0.11 | 0.07 | 0.12 | 0.04 |

Note: Respondent cluster-robust standard errors in parentheses. Wave fixed effects and controls not shown; \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

Table S6. Multi-level model estimates, risk perceptions

|  |  |  |  |
| --- | --- | --- | --- |
|  | Negativity | Openness | Agreeableness |
| Extraversion | -0.018 | -0.019 | -0.018 |
|  | (0.040) | (0.040) | (0.040) |
| Negativity | 0.790\*\*\* | 0.790\*\*\* | 0.792\*\*\* |
|  | (0.031) | (0.034) | (0.025) |
| Conscientiousness | 0.086\*\*\* | 0.084\*\*\* | 0.088\*\*\* |
|  | (0.022) | (0.022) | (0.022) |
| Openness | 0.241\*\*\* | 0.242\*\*\* | 0.239\*\*\* |
|  | (0.036) | (0.037) | (0.036) |
| Agreeableness | 0.551\*\*\* | 0.550\*\*\* | 0.551\*\*\* |
|  | (0.046) | (0.046) | (0.046) |
| Cases | 0.000\*\*\* | 0.000\*\*\* | 0.000\*\*\* |
|  | (0.000) | (0.000) | (0.000) |
| Vaccination Rate | -0.002\*\*\* | -0.002\*\*\* | -0.002\*\*\* |
|  | (0.000) | (0.000) | (0.000) |
| Trait \* Cases | -0.000 | -0.000 | 0.000 |
|  | (0.000) | (0.000) | (0.000) |
| Trait \* Vaccination Rate | 0.003\*\*\* | -0.004\*\*\* | -0.009\*\*\* |
|  | (0.001) | (0.002) | (0.001) |
| Constant | -0.133\*\* | -0.133\*\* | -0.137\*\* |
|  | (0.062) | (0.062) | (0.061) |
| lns1\_1\_1 | -20.181 | -13.471 | -3.115\*\*\* |
| \_cons | (50.573) | (41.596) | (1.340) |
| lns1\_1\_2 | -3.712\*\*\* | -3.711\*\*\* | -3.708\*\*\* |
| \_cons | (0.273) | (0.273) | (0.272) |
| lnsig\_e | -0.037\*\*\* | -0.037\*\*\* | -0.038\*\*\* |
| \_cons | (0.007) | (0.007) | (0.007) |
| N | 38571 | 38571 | 38571 |

Note: Controls for education, income, age, gender, and province; cluster-robust standard errors in parentheses; \* p<0.1, \*\* p<0.05, \*\*\* p<0.01

Table S7. Multi-level model estimates, protective behaviour

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extraversion | Negativity | Conscientiousness | Openness | Agreeableness |
| Extraversion | -0.537\*\*\* | -0.539\*\*\* | -0.539\*\*\* | -0.539\*\*\* | -0.539\*\*\* |
|  | (0.032) | (0.032) | (0.032) | (0.032) | (0.032) |
| Negativity | 0.445\*\*\* | 0.444\*\*\* | 0.445\*\*\* | 0.444\*\*\* | 0.445\*\*\* |
|  | (0.024) | (0.022) | (0.024) | (0.024) | (0.024) |
| Conscientiousness | 0.900\*\*\* | 0.900\*\*\* | 0.900\*\*\* | 0.900\*\*\* | 0.901\*\*\* |
|  | (0.038) | (0.038) | (0.039) | (0.038) | (0.038) |
| Openness | 0.645\*\*\* | 0.646\*\*\* | 0.645\*\*\* | 0.644\*\*\* | 0.645\*\*\* |
|  | (0.027) | (0.027) | (0.027) | (0.025) | (0.027) |
| Agreeableness | 0.927\*\*\* | 0.927\*\*\* | 0.927\*\*\* | 0.926\*\*\* | 0.926\*\*\* |
|  | (0.032) | (0.032) | (0.032) | (0.032) | (0.031) |
| Cases | 0.000\* | 0.000\* | 0.000\* | 0.000\* | 0.000\* |
|  | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) |
| Vaccination Rate | -0.004\*\*\* | -0.004\*\*\* | -0.004\*\*\* | -0.004\*\*\* | -0.004\*\*\* |
|  | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) |
| Trait \* Cases | 0.000 | -0.000 | -0.000 | -0.000\*\* | -0.000\* |
|  | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) |
| Trait \* Vaccination Rate | 0.001 | -0.001\* | -0.000 | -0.001 | -0.002 |
|  | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) |
| Constant | -1.466\*\*\* | -1.466\*\*\* | -1.468\*\*\* | -1.468\*\*\* | -1.468\*\*\* |
|  | (0.064) | (0.064) | (0.064) | (0.064) | (0.064) |
| lns1\_1\_1 | -2.836\*\*\* | -14.065\*\*\* | -2.695\*\*\* | -14.489\*\*\* | -9.633 |
| \_cons | (0.798) | (2.140) | (0.508) | (1.820) | (43.183) |
| lns1\_1\_2 | -3.163\*\*\* | -3.164\*\*\* | -3.164\*\*\* | -3.163\*\*\* | -3.164\*\*\* |
| \_cons | (0.160) | (0.160) | (0.160) | (0.160) | (0.160) |
| lnsig\_e | -0.121\*\*\* | -0.121\*\*\* | -0.121\*\*\* | -0.121\*\*\* | -0.121\*\*\* |
| \_cons | (0.005) | (0.005) | (0.005) | (0.005) | (0.005) |
| N | 38571 | 38571 | 38571 | 38571 | 38571 |

Note: Controls for education, income, age, gender, and province; cluster-robust standard errors in parentheses; \* p<0.1, \*\* p<0.05, \*\*\* p<0.01

Table S8. Multi-level model estimates, lockdown support

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extraversion | Negativity | Conscientiousness | Openness | Agreeableness |
| Extraversion | -0.617\*\*\* | -0.618\*\*\* | -0.614\*\*\* | -0.617\*\*\* | -0.616\*\*\* |
|  | (0.036) | (0.037) | (0.037) | (0.037) | (0.037) |
| Negativity | 0.370\*\*\* | 0.361\*\*\* | 0.369\*\*\* | 0.369\*\*\* | 0.372\*\*\* |
|  | (0.037) | (0.042) | (0.037) | (0.037) | (0.037) |
| Conscientiousness | 0.473\*\*\* | 0.474\*\*\* | 0.487\*\*\* | 0.473\*\*\* | 0.474\*\*\* |
|  | (0.045) | (0.045) | (0.041) | (0.045) | (0.045) |
| Openness | 0.388\*\*\* | 0.387\*\*\* | 0.386\*\*\* | 0.390\*\*\* | 0.387\*\*\* |
|  | (0.028) | (0.028) | (0.028) | (0.029) | (0.028) |
| Agreeableness | 0.494\*\*\* | 0.491\*\*\* | 0.494\*\*\* | 0.494\*\*\* | 0.499\*\*\* |
|  | (0.052) | (0.052) | (0.051) | (0.052) | (0.051) |
| Cases | 0.000\*\*\* | 0.000\*\*\* | 0.000\*\*\* | 0.000\*\*\* | 0.000\*\*\* |
|  | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) |
| Vaccination Rate | -0.005\*\*\* | -0.005\*\*\* | -0.005\*\*\* | -0.005\*\*\* | -0.005\*\*\* |
|  | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) |
| Stringency | -0.000 | -0.000\*\* | 0.000\*\*\* | -0.000 | 0.000\*\* |
|  | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) |
| Trait \* Cases | -0.002 | 0.000 | -0.005\*\* | -0.004\*\*\* | -0.004\* |
|  | (0.002) | (0.002) | (0.002) | (0.001) | (0.003) |
| Trait \* Vaccination Rate | -0.713\*\*\* | -0.714\*\*\* | -0.720\*\*\* | -0.713\*\*\* | -0.718\*\*\* |
|  | (0.074) | (0.074) | (0.074) | (0.074) | (0.074) |
| Constant | -0.617\*\*\* | -0.618\*\*\* | -0.614\*\*\* | -0.617\*\*\* | -0.616\*\*\* |
|  | (0.036) | (0.037) | (0.037) | (0.037) | (0.037) |
| lns1\_1\_1 | -2.350\*\*\* | -2.093\*\*\* | -1.809\*\*\* | -8.621 | -1.755\*\*\* |
| \_cons | (0.407) | (0.256) | (0.199) | (64.823) | (0.269) |
| lns1\_1\_2 | -2.847\*\*\* | -2.848\*\*\* | -2.847\*\*\* | -2.848\*\*\* | -2.846\*\*\* |
| \_cons | (0.163) | (0.163) | (0.163) | (0.163) | (0.163) |
| lnsig\_e | -0.058\*\*\* | -0.058\*\*\* | -0.059\*\*\* | -0.058\*\*\* | -0.059\*\*\* |
| \_cons | (0.009) | (0.009) | (0.009) | (0.009) | (0.009) |
| N | 38571 | 38571 | 38571 | 38571 | 38571 |

Note: Controls for education, income, age, gender, and province; cluster robust standard errors in parentheses; \* p<0.1, \*\* p<0.05, \*\*\* p<0.01

Table S9. Effects Big-5 traits on ideology

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Wave** | **Negativity** | **Conscientiousness** | **Agreeableness** | **Extraversion** | **Openness** |
| Coef. | P-value | Coef. | P-value | Coef. | P-value | Coef. | P-value | Coef. | P-value |
| 29 | -0.091 | 0.001 | -0.024 | 0.400 | -0.149 | 0.000 | 0.076 | 0.003 | -0.158 | 0.000 |
| 30 | -0.017 | 0.628 | -0.003 | 0.926 | -0.119 | 0.001 | 0.092 | 0.005 | -0.213 | 0.000 |
| 31 | -0.093 | 0.012 | 0.022 | 0.501 | -0.150 | 0.000 | 0.089 | 0.006 | -0.180 | 0.000 |
| 32 | -0.088 | 0.012 | 0.033 | 0.375 | -0.156 | 0.000 | 0.113 | 0.001 | -0.176 | 0.000 |
| 33 | -0.072 | 0.056 | -0.013 | 0.727 | -0.082 | 0.026 | 0.168 | 0.000 | -0.246 | 0.000 |
| 34 | -0.102 | 0.006 | 0.082 | 0.028 | -0.151 | 0.000 | 0.104 | 0.002 | -0.191 | 0.000 |
| 35 | -0.084 | 0.026 | -0.079 | 0.028 | -0.126 | 0.000 | 0.109 | 0.002 | -0.158 | 0.000 |
| 36 | -0.063 | 0.025 | 0.014 | 0.620 | -0.150 | 0.000 | 0.109 | 0.000 | -0.180 | 0.000 |
| 37 | -0.146 | 0.000 | 0.014 | 0.603 | -0.122 | 0.000 | 0.132 | 0.000 | -0.175 | 0.000 |
| 38 | -0.113 | 0.000 | -0.050 | 0.068 | -0.144 | 0.000 | 0.104 | 0.000 | -0.141 | 0.000 |
| 39 | -0.139 | 0.000 | 0.021 | 0.445 | -0.176 | 0.000 | 0.087 | 0.001 | -0.205 | 0.000 |
| 40 | -0.058 | 0.045 | 0.003 | 0.924 | -0.150 | 0.000 | 0.143 | 0.000 | -0.181 | 0.000 |
| 41 | -0.112 | 0.000 | -0.004 | 0.880 | -0.115 | 0.000 | 0.134 | 0.000 | -0.169 | 0.000 |
| 42 | -0.004 | 0.913 | -0.046 | 0.200 | -0.103 | 0.004 | 0.174 | 0.000 | -0.175 | 0.000 |
| 43 | -0.074 | 0.036 | -0.059 | 0.132 | -0.116 | 0.001 | 0.146 | 0.000 | -0.177 | 0.000 |
| 44 | -0.073 | 0.046 | -0.007 | 0.857 | -0.162 | 0.000 | 0.092 | 0.006 | -0.187 | 0.000 |
| 45 | -0.071 | 0.048 | -0.041 | 0.271 | -0.080 | 0.018 | 0.173 | 0.000 | -0.201 | 0.000 |
| 46 | -0.065 | 0.031 | -0.018 | 0.556 | -0.160 | 0.000 | 0.122 | 0.000 | -0.168 | 0.000 |
| 47 | -0.091 | 0.002 | 0.044 | 0.165 | -0.147 | 0.000 | 0.104 | 0.000 | -0.193 | 0.000 |
| 48 | -0.067 | 0.056 | -0.017 | 0.591 | -0.118 | 0.000 | 0.106 | 0.000 | -0.217 | 0.000 |
| 49 | -0.135 | 0.000 | 0.011 | 0.737 | -0.136 | 0.000 | 0.159 | 0.000 | -0.234 | 0.000 |
| 50 | -0.044 | 0.146 | 0.041 | 0.205 | -0.174 | 0.000 | 0.169 | 0.000 | -0.238 | 0.000 |
| **Average** | **-0.082** | **0.095** | **-0.004** | **0.465** | **-0.136** | **0.002** | **0.123** | **0.001** | **-0.189** | **0.000** |

Note: includes controls for education, income, age, gender, and region.

Table S10. Effects Big-5 traits on expert distrust

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Wave** | **Negativity** | **Conscientiousness** | **Agreeableness** | **Extraversion** | **Openness** |
| Coef. | P-value | Coef. | P-value | Coef. | P-value | Coef. | P-value | Coef. | P-value |
| 29 | -0.005 | 0.839 | -0.011 | 0.647 | -0.180 | 0.000 | 0.034 | 0.127 | -0.085 | 0.000 |
| 30 | 0.003 | 0.923 | -0.048 | 0.157 | -0.179 | 0.000 | -0.028 | 0.344 | -0.005 | 0.862 |
| 31 | -0.009 | 0.784 | -0.012 | 0.715 | -0.189 | 0.000 | 0.022 | 0.471 | -0.073 | 0.013 |
| 32 | 0.083 | 0.012 | -0.031 | 0.381 | -0.153 | 0.000 | 0.018 | 0.559 | -0.029 | 0.337 |
| 33 | -0.031 | 0.292 | -0.049 | 0.119 | -0.166 | 0.000 | -0.001 | 0.981 | -0.076 | 0.005 |
| 34 | -0.047 | 0.153 | -0.056 | 0.083 | -0.189 | 0.000 | 0.008 | 0.803 | -0.086 | 0.004 |
| 35 | 0.023 | 0.495 | -0.056 | 0.095 | -0.194 | 0.000 | 0.005 | 0.881 | 0.006 | 0.833 |
| 36 | -0.019 | 0.472 | -0.026 | 0.335 | -0.216 | 0.000 | 0.033 | 0.173 | -0.012 | 0.605 |
| 37 | -0.046 | 0.061 | -0.074 | 0.005 | -0.187 | 0.000 | 0.018 | 0.419 | -0.057 | 0.005 |
| 38 | -0.056 | 0.022 | -0.089 | 0.000 | -0.172 | 0.000 | 0.035 | 0.147 | -0.047 | 0.040 |
| 39 | -0.042 | 0.085 | -0.073 | 0.006 | -0.193 | 0.000 | 0.046 | 0.05 | -0.061 | 0.006 |
| 40 | -0.031 | 0.200 | -0.053 | 0.027 | -0.174 | 0.000 | -0.015 | 0.474 | -0.019 | 0.375 |
| 41 | -0.049 | 0.027 | -0.063 | 0.010 | -0.177 | 0.000 | 0.032 | 0.144 | -0.054 | 0.010 |
| 42 | -0.017 | 0.572 | -0.045 | 0.197 | -0.216 | 0.000 | 0.040 | 0.169 | -0.015 | 0.587 |
| 43 | -0.046 | 0.218 | -0.103 | 0.006 | -0.168 | 0.000 | 0.042 | 0.204 | -0.019 | 0.515 |
| 44 | 0.018 | 0.591 | -0.067 | 0.050 | -0.187 | 0.000 | 0.027 | 0.37 | -0.072 | 0.008 |
| 45 | -0.059 | 0.052 | -0.039 | 0.231 | -0.237 | 0.000 | 0.058 | 0.04 | -0.058 | 0.037 |
| 46 | -0.022 | 0.423 | -0.047 | 0.098 | -0.182 | 0.000 | 0.012 | 0.647 | -0.027 | 0.256 |
| 47 | -0.032 | 0.286 | -0.034 | 0.242 | -0.249 | 0.000 | 0.028 | 0.269 | -0.052 | 0.023 |
| 48 | -0.074 | 0.007 | -0.067 | 0.019 | -0.212 | 0.000 | 0.002 | 0.926 | 0.003 | 0.918 |
| 49 | -0.022 | 0.441 | -0.032 | 0.302 | -0.237 | 0.000 | 0.018 | 0.475 | -0.052 | 0.035 |
| 50 | -0.047 | 0.095 | -0.045 | 0.104 | -0.200 | 0.000 | 0.024 | 0.368 | -0.050 | 0.037 |
| **Average** | **-0.024** | **0.320** | **-0.051** | **0.174** | **-0.194** | **0.000** | **0.021** | **0.411** | **-0.043** | **0.251** |

Note: includes controls for education, income, age, gender, and region.

Table S11. Direct and indirect effects of personality on COVID-19 attitudes and behaviours

|  |  |
| --- | --- |
|  | Ideology |
|  | Indirect | Total | % Indirect |
|  | Coef. | P-value | Coef. | P-value |  |
| *DV = Threat perceptions* |  |  |  |  |  |
| Agreeableness | 0.006 | 0.000 | 0.107 | 0.000 | 5 |
| Extraversion | -0.005 | 0.000 | -0.005 | 0.364 | 92 |
| *DV = Protective behaviour* |  |  |  |  |  |
| Agreeableness | 0.032 | 0.000 | 0.196 | 0.000 | 16 |
| Extraversion | -0.027 | 0.000 | -0.112 | 0.000 | 24 |
| *DV = Lockdown support* |  |  |  |  |  |
| Agreeableness | 0.033 | 0.000 | 0.113 | 0.000 | 29 |
| Extraversion | -0.028 | 0.000 | -0.118 | 0.000 | 24 |
|  | Expert distrust |
|  | Coef. | P-value | Coef. | P-value | % Indirect |
| *DV = Threat perceptions* |  |  |  |  |  |
| Agreeableness | 0.044 | 0.000 | 0.103 | 0.000 | 43 |
| *DV = Protective behaviour* |  |  |  |  |  |
| Agreeableness | 0.044 | 0.000 | 0.195 | 0.000 | 23 |
| *DV = Lockdown support* |  |  |  |  |  |
| Agreeableness | 0.045 | 0.000 | 0.106 | 0.000 | 42 |



Figure S1. Changes in risk perceptions (left), protective behaviours (centre), and lockdown preferences (right) over the course of survey fielding.



Figure S2. Predicted protective behaviour by openness over COVID-19 caseload. 95% confidence intervals.



Figure S3. Average scores of the Big-5 across survey waves. 95% confidence intervals.