**Online Appendix for**

**“Poor mental health does not always reduce political participation: Wrong assumption, wrong samples, or wrong measures?”**

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**Section A: Survey Details and Sampling**

**YouGov Survey**

The so-called YouGov survey is a two-wave online survey, one wave conducted in February 2022 and one in May/June 2022, of a demographically and politically representative sample of the GB adult population (aged 18+) to the polling firm YouGov using their ‘Political Omnibus’ approach (N~1,700 and 1,400 respectively). The samples were recruited from an online panel using active sampling based on quotas relating to age, gender, social grade, education, region, political attention and the 2016 EU Referendum and 2019 General Election votes. The quotas were based on the following publicly available data: ONS mid-year estimates, The Census, Election and Referendum Results, and British Election Study face-to-face study.

YouGov does not rely on consent but on legitimate interests for processing panelist data. When an individual joins YouGov, they are asked to agree to their terms and conditions and are offered the chance to read their privacy and cookies notice. Before starting the survey, participants were shown a short text briefing them about the nature of the study and the approximate duration of the survey. The data were fully anonymized after the fieldwork and an individual ID number was created. An ethics application was submitted for our study and received ethical approval on 13th July 2020 by the School of XXX Ethics Committee of the University of XXX (reference number 7774). No compensation was offered to the participants.

**LISS Survey**

The Dutch Longitudinal Internet Studies for the Social Sciences (LISS) is a yearly panel survey conducted in the Netherlands since 2007. The Netherland case study offers a comprehensive panel comprising 5000 true probability sample households drawn from the population register by Statistics Netherlands. Up to date, thirteen waves have been conducted between 2007-2020 (in 2015, no data was collected). The survey’s response rate is high, with 48 percent of the initial sample agreeing to participate. Thereafter, the collected sample displays a stable reply rate of 83 percent (on average) for consecutive waves and reasonable attrition rates (16 percent). In our study, we use data between 2007 and 2010 because that is when the Brief Symptoms Inventory was asked.

**SHP Survey**

The SHP is a panel survey of the resident population in Switzerland, with interviews mostly conducted by telephone. It currently consists of 21 waves from 1999 to 2020, fielded annually between September and February, with a sample size ranging between around 5,000 and 13,000 (Voorpostel et al. 2020). The initial sample was a stratified random sample of private households, with two refreshments of the sample in 2004 and 2013. In the paper we used waves 1 to 10 for which we have repeated questions on political participation.

Voorpostel, M., Tillmann, R., Lebert, F., Kuhn, U., Lipps, O., Ryser, V.-A., Antal, E., Monsch, G.-A., Dasoki, N., Klaas, H.S., and Wernli, B. 2020. *Swiss Household Panel Userguide (1999-2018)*, Wave 20, February 2020. Lausanne: FORS.

**SOEP Survey**

The German Socio-Economic Panel SOEP-Core (SOEP in short) is a household panel survey in Germany that provides information on individuals yearly since 1984 to 2020. Data include German citizens from both former West and East Germany (since 1990), foreign citizens, immigrants and refugees (since 2016) living in Germany. SOEP has interviewed more than 30,000 individuals from more than 20,000 households. SOEP uses different methods to collect data such as the "pen-and-paper interview" (PAPI) and computer-assisted personal interviews (CAPI).

**ACL Survey**

The Americans’ Chancing Lives (ACL) survey is an ongoing nationally representative longitudinal study focusing especially on differences between Black and White Americans in middle and late life. The data collection comprises five waves. Wave I of the study began in 1986 with a nation face-to-face survey of 3,617 adults ages 25 and up, with Black Americans and people aged 60 and over over-sampled at twice the rate of the others. Wave II constitutes face-to-face re-interviews in 1989 of those still alive. Survivors have been re-interviewed by telephone, and when necessary, face-to-face, in 1994, 2001/02, and 2011, making up Waves III, IV, and V of the data. In our research, we use data from Wave II because it is the only wave that includes a question on voting (as well as depressive symptoms and volunteer work in a political organization).

**UKHLS Survey**

Understanding Society, the UK Household Longitudinal Study, is a probability-based panel survey of households with yearly interviews started in 2009 as a continuation of the British Household Panel Survey. Data collection for a single wave is scheduled across 24 months with over 40,000 households contributing to the study. In our research we only use wave 11 (2019-2021) where questions on self-reported diagnosis of mental disorders are available.

**Section B: Question Wording and Variable Measurement**

**YouGov Survey**

***Mental Health***

Depression symptoms were measured with the 9-item form of the Center for Epidemiologic Studies Depression Scale (Radloff 1977). Respondents were asked about their feelings in the past two months on the following items: “I felt depressed;” “I felt that everything I did was an effort;” “I felt hopeful about the future;” “my sleep was restless;” “I was happy;” “I felt lonely;” “I enjoyed life;” “I felt sad;” and “I could not get ‘going.” Response options ranged from 1 (rarely or none of the time) to 4 (most or all of the time). Scores on the *CESD-9* ranged from 0 to 27 and were recoded so that higher values denote higher levels of depressive symptoms. Cronbach’s alpha is 0.90.

Anxiety symptoms were measured with the 6-item form of the State-Trait Anxiety Inventory (Marteau and Bekker 1992). Respondents were asked how often have they felt calm / tense / relaxed / upset / content / worried in the past two months. Response options ranged from 1 (never) to 4 (always). Scores on the *STAI-6* ranged from 2 to 16 and were recoded so that higher values denote higher levels of anxiety symptoms. Cronbach’s alpha is 0.89.

Stress symptoms were measured with the 4-item form of the Perceived Stress Scale (Cohen, Kamarck, and Mermelstein 1983). Respondents were asked how often in the past two months have they felt: “that you were unable to control the important things in your life;” “confident about your ability to handle your personal problems;” “that things were going your way;” and “difficulties were piling up so high that you could not overcome them.” Response options range from 1 (never) to 5 (all of the time). Scores on the *PSS-4* ranged from 0 to 16 and were recoded so that higher values denote higher levels of stress symptoms. Cronbach’s alpha is 0.78. The mean correlation among symptoms of depression, anxiety, and stress in our data set was *r*=0.73, confirming comorbidity of mental disorders.

To measure long-term mental health conditions (lasting at least 6 months), respondents were asked to report if a doctor or a health professional has ever diagnosed them with a mental health problem. Options inspired by the DSM-5 were: schizophrenia or other psychotic disorders (N=6); bipolar disorder (N=14); depressive disorder (N=277); anxiety disorder (N=266); obsessive-compulsive disorder (N=23); trauma and stress-related disorder (N=77); feeding and eating disorder (N=46); personality disorder (N=21); were possible, descriptions provided in the option other (N=32) were used to classify cases in any of the above categories. (Schizophrenia and other psychotic disorders are omitted from the analyses with separate mental disorders due to the very low number of observations.)

Table B1: Validation of self-reported mental disorders in the YouGov survey

|  |  |  |  |
| --- | --- | --- | --- |
|  | Feb 2022 Survey % | Prevalence Estimates % | Source |
| Schizophrenia / Psychotic | 0.3 | 0.7 | 2014 Adult Psychiatric Morbidity Survey |
| Bipolar | 0.8 | 2.0 | 2014 Adult Psychiatric Morbidity Survey |
| Depressive | 15.9 | 3.3 but 15.7 12+ symptoms of CMD | 2014 Adult Psychiatric Morbidity Survey |
| Anxiety | 15.3 | 8.9 but 15.7 12+ symptoms of CMD | 2014 Adult Psychiatric Morbidity Survey |
| OCD | 1.3 | 1.3 | 2014 Adult Psychiatric Morbidity Survey |
| PTSD | 4.4 | 4.4 | 2014 Adult Psychiatric Morbidity Survey |
| Personality | 1.2 | 3.3 Antisocial  2.4. Borderline | 2014 Adult Psychiatric Morbidity Survey |
| Eating | 2.6 | n.a. |  |

***Political Participation***

To measure voting propensity we recoded responses to a question on vote intentions (if there were a general election held tomorrow, which party would you vote for?) as 1 if the respondent reported a vote choice preference (69%) and 0 if the respondent replied either don’t know or would not vote (31%).

To measure political participation respondents reported if they had done any of the following in the last 12 months: (a) contacted a politician, government or local government official (19%); (b) worked in a political party or action group (1%); (c) worked in another organisation or association (2%); (d) worn or displayed a campaign badge/sticker (3%); (e) signed a petition (45%); (f) taken part in a lawful public demonstration (2%); (g) boycotted certain products (19%); (h) posted or shared anything about politics online, for example on blogs, via email or social media such as Facebook or Twitter (20%). We have aggregated the items into an additive index of political participation which theoretical values range between 0 and 8.

In our subsequent analyses that distinguish between physical and nonphysical forms of political participation, we coded [b, c, f] as forms of physical participation and [a, d, e, g, h] as forms of nonphysical participation.

Cohen, S., Kamarck, T. & Mermelstein, R. (1983). A Global Measure of Perceived Stress. *Journal of Health and Social Behavior* *24*(4): 385–396.

Marteau, T.M. & Bekker, H. (1992). The development of a six‐item short‐form of the state scale of the Spielberger State—Trait Anxiety Inventory (STAI). *British Journal of Clinical Psychology* *31*(3): 301–306.

Radloff, L.S. (1977). The CES-D Scale: A Self-Report Depression Scale for Research in the General Population. *Applied Psychological Measurement* *1*(3): 385–401.

**LISS Survey**

***Mental Health***

To measure mental health problems we use the Brief Symptom Inventory (Derogatis 1975) which identifies self-reported clinically relevant psychological symptoms and is available in the LISS’ “Mental Health” Assembled Studies. The BSI consists of 53 items covering nine symptom dimensions: Somatization (in LISS called somatic complaints), Obsession-Compulsion (in LISS called problems in cognitive functions), Interpersonal Sensitivity, Depression, Anxiety (in LISS called fear), Hostility, Phobic Anxiety (in LISS called phobic fear), Paranoid Ideation, and Psychoticism. Respondents rank each feeling item (e.g., “your feelings being easily hurt”) on a 5-point scale ranging from 0 (not at all) to 4 (extremely). Rankings characterize the intensity of distress during the past seven days. The original survey question reads as follows: “Here I have a list of problems people sometimes have. As I read each one to you, I want you to tell me how much that problem has distressed or bothered you during the past 7 days including today.” Since the LISS is not allowed to publish the BSI item questions due to copyright constraints, we have collected this information online at this link: https://hazards.colorado.edu/nhcdata/chernobyl/ChData/ScalesInstruments/Scales%20and%20Indices/Scale%20Construction%20Instructions/BSI.pdf

**Somatization**: faintness or dizziness; pains in the heart or chest; nausea or upset stomach; trouble getting your breath; hot or cold spells; numbness or tingling in parts of your body; feeling weak in parts of your body.

**Obsession-Compulsion**: trouble remembering things; feeling blocked in getting things done; having to check and double-check what you do; difficulty making decisions; your mind going blank; trouble concentrating.

**Interpersonal Sensitivity**: your feelings being easily hurt; feeling that people are unfriendly or dislike you; feeling inferior to others; feeling very self-conscious with others.

**Depression**: thoughts of ending your life; feeling lonely; feeling blue; feeling no interest in things; feeling hopeless about the future; feelings of worthlessness.

**Anxiety**: nervousness or shakiness inside; suddenly scared for no reason; feeling fearful; feeling tense or keyed up; spells or terror or panic; feeling so restless you couldn’t sit still.

**Hostility**: feeling easily annoyed or irritated; temper outbursts that you could not control; having urges to beat, injure, or harm someone; having urges to break or smash things; getting into frequent arguments.

**Phobic Anxiety**: feeling afraid in open spaces; feeling afraid to travel on buses, having to avoid certain things, places, or activities because they frighten you; feeling uneasy in crowds; feeling nervous when you are left alone.

**Paranoid Ideation**: feeling others are to blame for most of your troubles; feeling that most people cannot be trusted; feeling that you are watched or talked about by others; others not giving you proper credit for your achievements; feeling that people will take advantage of you if you let them.

**Psychoticism**: the idea that someone else can control your thoughts; feeling lonely even if you are with people; the idea that you should be punished for your sins; never feeling close to another person; the idea that something is wrong with your mind.

Derogatis, L. R. (1975). Brief Symptom Inventory. Baltimore, MD: Clinical Psychometric Research

***Political Participation***

To measure voting, we used the question “Did you vote in the most recent parliamentary elections, held on DD/MM/YYYY?” Response options: yes, no.

To measure other forms of political participation we relied on the following survey question: “There are different ways of raising a political issue or of influencing politicians or government. Can you indicate which of the following ways you have exercised over the past five years?” Respondents were asked to reply yes or no. Eight forms of participation are available: (1) asked for help from radio, television or newspaper; (2) by making use of a political party or organization; (3) participated in a government-organized public hearing, (4) discussion or citizens’ participation meeting; (5) contacted a politician or civil servant; (6) participated in an action group; (7) participated in a protest action, protest march or demonstration; (8) participated in a political discussion or campaign on the internet, by e-mail or SMS. We have aggregated the items into an additive index of political participation which theoretical values range between 0 and 8.

In our subsequent analyses that distinguish between physical and nonphysical forms of political participation, we coded [2, 3, 5, 6, 7] as forms of physical participation and [1, 4, 8] as forms of nonphysical participation.

**SHP Survey**

***Mental Health***

To measure mental health problems we used the following question: “Do you often have negative feelings such as having the blues, being desperate, suffering from anxiety or depression, if 0 means ‘never’ and 10 ‘always’?

***Political Participation***

To measure voting we used the following question: “If there was an election for the National Council tomorrow, for which party would you vote?” The variable was recoded as 1 if the respondent provided a party choice, 0 if the respondent mentioned that they wouldn’t vote.

SHP asks for participation in various forms of political activities in the past 12 months. However, those questions are only available in wave 1 (first one) and wave 22 (last one). Therefore we use three questions that are available over time between wave 1 and wave 10. These are the following: “If 0 means ‘never’ and 10 ‘certainly’, tell me to what extent, in the future, you are prepared to: take part in a boycott / strike / demonstration.”

**SOEP Survey**

***Mental Health***

SOEP only covers depression as a mental health problem. We used the following question: “Has a doctor ever diagnosed you to have one or more of the following illnesses?” Response options: yes; no.

***Political Participation***

To measure voting we used the following two questions available in different waves: “And how was it at the last general election (Bundestagswahl) on MM DD YYYY? Which party did you vote for?” The variable was recoded as 1 if the respondent provided a party choice, 0 if the respondent mentioned that they wouldn’t vote. “Are you at the last election to the German Bundestag on DD MM YYYY choose to go” (official translation). Response options: yes, no.

SOEP only has a question for political participation that we could use: “Now some questions about your leisure time. Please indicate for each activity how often you do this: daily, at least once a week, at least once a month, rarely, or never? Participating in political parties, municipal politics, citizens’ initiative.” We have recoded the response options so that higher values denote higher levels of political participation.

**ACL Survey**

***Mental Health***

ACL only covers depression as a mental health problem. A shorter 13-item version of the CES-D scale was asked to respondents. “Please look at page 5 of the yellow booklet where you will find a list of statements describing how people sometimes feel. After each statement, please put an “X” in the answer category that indicates how often you felt that way during the past week. The best answer is usually the one that comes to your mind first, so do not spend too much time on any one statement. Let me know when you have finished. [If you prefer, I can read the statements to you.]

During the past week…

* I felt depressed.
* I felt that everything I did was an effort.
* My sleep was restless.
* I was happy.
* I felt lonely.
* People were unfriendly.
* I enjoyed life.
* I did not feel like eating. My appetite was poor.
* I was full of energy.
* I felt sad.
* I felt that people disliked me.
* I could not get “going”.
* I felt that people cared about me.

Response options: Hardly ever; Some of the time; Most of the time.

Scores on the *CESD-13* ranged from 0 to 24 and were recoded so that higher values denote higher levels of depressive symptoms. Cronbach’s alpha is 0.83.

***Political Participation***

To measure voting we used the vote recall question available in Wave II 1989: “Now, a question about voting. We often find that a lot of people were not able to vote because they weren’t registered, they were sick, or they just didn’t have time. How about you – did you vote in the elections last November?” Yes; No; Don’t know.

ACL only has one question for other forms of political participation within a set of questions related to volunteer work: “Now let’s talk about volunteer work you may have done during the last 12 months. Did you do volunteer work for a political group or labor union in the last 12 months?” Yes; No.

**UKHLS Survey**

***Mental Health***

To measure mental health conditions, respondents were asked to report if they were ever diagnosed with a psychiatric, nervous or emotional disorder a doctor or a health professional has ever diagnosed them with a mental health problem. Wave 11 of the UKHLS includes: anxiety, depression, psychosis/schizophrenia, PTSD, bipolar, and eating disorders. Respondents had to answer yes or no to each item. The question was asked to both respondents who were interviewed in previous waves and those who entered the survey in Wave 11. Our self-reported diagnosis variables include both sets of respondents. Therefore our number of cases for each condition is the following: anxiety (N=455), depression (N=418), psychosis/schizophrenia (N=23), PTSD (N=89), bipolar (N=32), and eating disorders (N=28).

***Political Participation***

The wave only asks about voting but not other forms of political participation. We used a vote intention question: “If there were to be a general election tomorrow, which political party do you think you would be most likely to support?” The variable was recoded as 1 if the respondent provided a party choice, 0 if the respondent mentioned that they would vote for none.

**Section C: Control Variables**

Table C1: Coding of control variables by survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **YouGov** | **LISS** | **SHP** | **SOEP** | **ACL** | **UKHLS** |
| **Sex** | 1=male; 2=female | 1=male; 0=female | 1=male;  2=female | 1=male; 0=female | 1=male; 0=female | 1=male; 0=female |
| **Age** | Continuous | Continuous | Continuous | Continuous | Continuous | Continuous |
| **Age squared** | Continuous | Continuous | Continuous | Continuous | Continuous | Continuous |
| **Education** | 1=no formal edu;  2=youth training certificate, clerical and commercial, CSE grades 2-5;  3=apprenticeship, city & guilds certificate, GCSE, Scottish ordinary/lower certificate;  4=city & guilds certificate advanced, ONC, GCE A level or higher certificate, Scottish higher certificate;  5=nursing qualification, teaching qualification, university diploma, university or CNAA first degree;  6=university or CNAA higher degree;  7=other technical, professional or higher | 1=primary school;  2=intermediate secondary edu;  3=higher secondary edu;  4=intermediate vocational edu;  5=higher vocational edu;  6=university | 0=not completed primary edu;  10=primary edu;  20=lower secondary;  31=upper secondary 3A;  32=upper secondary 3B;  33=upper secondary 3C;  41=post-secondary edu;  51=first stage tertiary edu 5A;  52=first stage tertiary edu 5B;  60=second stage tertiary edu | 1=lower;  2=intermediate  3=maturity certificate;  4=tertiary | 1=low SES (0-11 years of education;  2=lower-middle SES (0-11 years of education);  3=upper-middle SES (12-15 years of education);  4=high SES (16+ years of education) | 2=lower secondary;  3=upper secondary;  6=bachelor;  7=masters;  8=doctorate;  96=none of the above |
| **Marital status** | 1=never married;  2=married, living as married, civil partnership;  3=separated, divorced;  4=widowed | 1=married;  2=divorced, separated;  3=widow, widower;  4=never been married | 1=single, never married;  2=married, registered partnership;  3=separated, divorced; dissolved partnership;  4=widower, widow | 0=no partner  1=married, partner | 1=Married;  2=Widowed;  3=Divorced or separated;  4=Never married | 1=single, never married;  2=married, civil partner  3=separated legally married, divorced, separated from civil partner, a former civil partner, surviving civil partner;  4=widowed |
| **Employment status** | 1=paid employment;  2=unemployed, not paid employment;  3=student;  4=retired | 1=paid employment;  2=unemployed, not paid employment;  3=student;  4=pensioner | 1=full-time, part-time, work in family company, work in protected atelier, child woman man at home;  2=unemployed;  3=in school, further education  4=retired, retired invalidity | 0=unemployed;  1=employed | 1=prof\_mgr;  2=cler\_sal;  3=craf\_kin;  4=operatv;  5=labourer;  6=serv\_wkr;  7=retired;  8=disabled;  9=unemploy;  10=keephous | 1=self employed;  2=paid employment (ft/pt);  3=unemployed;  4=retired;  5=on maternity leave, family care or home;  6=full-time student;  7=LT sick or disabled;  8=other |
| **Race** |  |  |  |  | 1=White;  2=Black;  3=American Indian;  4=Asian  5=Hispanic |  |

**Section D: Descriptive Statistics**

**YouGov: Descriptive statistics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| **Variable** | **Observations** | **Mean** | **Std. Dev.** | **Min** | **Max** |
| *Mental health variables* |  |  |  |  |  |
| Bipolar | 1615 | 0.01 | 0.09 | 0.00 | 1.00 |
| Depression | 1615 | 0.16 | 0.36 | 0.00 | 1.00 |
| Anxiety | 1615 | 0.15 | 0.36 | 0.00 | 1.00 |
| OCD | 1615 | 0.01 | 0.11 | 0.00 | 1.00 |
| PTSD | 1615 | 0.05 | 0.21 | 0.00 | 1.00 |
| Eating | 1615 | 0.03 | 0.16 | 0.00 | 1.00 |
| Personality | 1615 | 0.01 | 0.10 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Participation variables* |  |  |  |  |  |
| Vote intention | 1615 | 0.70 | 0.46 | 0.00 | 1.00 |
| polpartindex | 1615 | 1.16 | 1.41 | 0.00 | 7.00 |
| physicalpolpart | 1615 | 0.05 | 0.26 | 0.00 | 3.00 |
| nonphysicalpolpart | 1615 | 1.10 | 1.31 | 0.00 | 5.00 |
|  |  |  |  |  |  |
| *Controls* |  |  |  |  |  |
| Gender (1=Female) | 1615 | 1.56 | 0.50 | 1.00 | 2.00 |
| Age | 1615 | 53.88 | 15.98 | 18 | 87 |
| Education | 1615 | 4.38 | 1.58 | 1.00 | 7.00 |
| Social grade | 1615 | 2.28 | 1.16 | 1.00 | 4.00 |
| Marital status | 1615 | 1.99 | 0.73 | 1.00 | 4.00 |
|  | | | | | |

**LISS: Descriptive statistics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| Variable | Obs. | Mean | Std. Dev. | Min | Max |
| BSI\_total | 5281 | 0.48 | 0.24 | 0.00 | 1.00 |
| BSI\_somatic | 5281 | 0.42 | 0.27 | 0.00 | 1.00 |
| BSI\_cognitive | 5281 | 0.30 | 0.28 | 0.00 | 1.00 |
| BSI\_interpersonal | 5281 | 0.27 | 0.27 | 0.00 | 1.00 |
| BSI\_depression | 5281 | 0.41 | 0.27 | 0.00 | 1.00 |
| BSI\_fear | 5281 | 0.32 | 0.31 | 0.00 | 1.00 |
| BSI\_hostility | 5281 | 0.36 | 0.29 | 0.00 | 1.00 |
| BSI\_phobic | 5281 | 0.38 | 0.19 | 0.25 | 1.00 |
| BSI\_paranoid | 5281 | 0.35 | 0.29 | 0.00 | 1.00 |
| BSI\_psychoticism | 5281 | 0.47 | 0.21 | 0.25 | 1.00 |
|  |  |  |  |  |  |
| *Participation variables* |  |  |  |  |  |
| Voted | 4799 | 0.84 | 0.36 | 0.00 | 1.00 |
| Political participation | 5281 | 0.08 | 0.15 | 0.00 | 1.00 |
| Physical political participation | 5281 | 0.05 | 0.15 | 0.00 | 1.00 |
| Non-Physical political participation | 5281 | 0.12 | 0.21 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Controls* |  |  |  |  |  |
| Gender (1=male) | 5281 | 0.49 | 0.50 | 0.00 | 1.00 |
| Age | 5281 | 50.16 | 17.86 | 18.00 | 88.00 |
|  |  |  |  |  |  |
| *Education* |  |  |  |  |  |
| Primary school | 5281 | 0.10 | 0.30 | 0.00 | 1.00 |
| Intermediate secondary | 5281 | 0.27 | 0.44 | 0.00 | 1.00 |
| Higher secondary | 5281 | 0.11 | 0.32 | 0.00 | 1.00 |
| Intermediate vocational | 5281 | 0.22 | 0.41 | 0.00 | 1.00 |
| Higher vocational | 5281 | 0.21 | 0.41 | 0.00 | 1.00 |
| University | 5281 | 0.09 | 0.28 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Marital status* |  |  |  |  |  |
| Married | 5281 | 0.56 | 0.50 | 0.00 | 1.00 |
| Divorced/separated | 5281 | 0.10 | 0.30 | 0.00 | 1.00 |
| Widowed | 5281 | 0.07 | 0.25 | 0.00 | 1.00 |
| Never married | 5281 | 0.27 | 0.45 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Employment status* |  |  |  |  |  |
| Paid employment | 5281 | 0.49 | 0.50 | 0.00 | 1.00 |
| Unemployed | 5281 | 0.19 | 0.39 | 0.00 | 1.00 |
| Student | 5281 | 0.07 | 0.25 | 0.00 | 1.00 |
| Pensioner | 5281 | 0.26 | 0.44 | 0.00 | 1.00 |
|  | | | | | |

**SHP: Descriptive statistics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| Variable | Obs | Mean | Std. Dev. | Min | Max |
| *Mental health variable* |  |  |  |  |  |
| Self-reported depression / anxiety | 58124 | 0.19 | 0.21 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Participation variables* |  |  |  |  |  |
| Voting in federal polls | 52541 | 0.76 | 0.31 | 0.00 | 1.00 |
| Participation in boycotts | 58124 | 0.34 | 0.35 | 0.00 | 1.00 |
| Participation in strikes | 58026 | 0.38 | 0.36 | 0.00 | 1.00 |
| Participation in demonstrations | 51397 | 0.47 | 0.21 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Controls* |  |  |  |  |  |
| Gender (1=female) | 58124 | 1.55 | 0.50 | 1.00 | 2.00 |
| Age | 58124 | 46.38 | 16.09 | 18.00 | 96.00 |
|  |  |  |  |  |  |
| *Education* |  |  |  |  |  |
| Primary | 58124 | 0.01 | 0.11 | 0.00 | 1.00 |
| Lower secondary | 58124 | 0.09 | 0.29 | 0.00 | 1.00 |
| Upper secondary 3A | 58124 | 0.10 | 0.30 | 0.00 | 1.00 |
| Upper secondary 3B | 58124 | 0.42 | 0.49 | 0.00 | 1.00 |
| Upper secondary 3C | 58124 | 0.07 | 0.26 | 0.00 | 1.00 |
| Post-seconday education | 58124 | 0.01 | 0.11 | 0.00 | 1.00 |
| First stage tertiary 5A | 58124 | 0.10 | 0.31 | 0.00 | 1.00 |
| First stage tertiary 5B | 58124 | 0.16 | 0.37 | 0.00 | 1.00 |
| Second stage tertiary | 58124 | 0.03 | 0.16 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Marital status* |  |  |  |  |  |
| Single | 58124 | 0.25 | 0.43 | 0.00 | 1.00 |
| Married | 58124 | 0.60 | 0.49 | 0.00 | 1.00 |
| Divorced/separated | 58124 | 0.10 | 0.30 | 0.00 | 1.00 |
| Widowed | 58124 | 0.05 | 0.22 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Employment status* |  |  |  |  |  |
| Employed | 58124 | 0.74 | 0.44 | 0.00 | 1.00 |
| Unemployed | 58124 | 0.01 | 0.11 | 0.00 | 1.00 |
| Student | 58124 | 0.08 | 0.27 | 0.00 | 1.00 |
| Retired | 58124 | 0.17 | 0.38 | 0.00 | 1.00 |
|  | | | | | |

**Soep: Descriptive statistics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| Variable | Obs. | Mean | Std. Dev. | Min | Max |
| *Mental health variable* |  |  |  |  |  |
| Self-reported diagnosis of depression | 26342 | 0.07 | 0.25 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Participation variables* |  |  |  |  |  |
| Voted | 5202 | 0.54 | 0.50 | 0.00 | 1.00 |
| Participation in political parties, municipal politics and citizens’ initiatives | 26342 | 1.56 | 0.81 | 1.00 | 5.00 |
|  |  |  |  |  |  |
| *Controls* |  |  |  |  |  |
| Gender (1=male) | 26342 | 0.53 | 0.50 | 0.00 | 1.00 |
| Age | 26342 | 53.33 | 15.84 | 18.00 | 94.00 |
|  |  |  |  |  |  |
| *Education* |  |  |  |  |  |
| Lower level | 26342 | 0.26 | 0.44 | 0.00 | 1.00 |
| Intermediate level | 26342 | 0.25 | 0.44 | 0.00 | 1.00 |
| Maturity | 26342 | 0.13 | 0.34 | 0.00 | 1.00 |
| Tertiary level | 26342 | 0.35 | 0.48 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Marital status* |  |  |  |  |  |
| Single | 26342 | 0.26 | 0.44 | 0.00 | 1.00 |
| Married | 26342 | 0.74 | 0.44 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Employment status* |  |  |  |  |  |
| Unemployed | 26342 | 0.38 | 0.49 | 0.00 | 1.00 |
| Employed | 26342 | 0.62 | 0.49 | 0.00 | 1.00 |
|  | | | | | |

**UKHLS: Descriptive statistics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptive Statistics** | | | | | |
| Variable | Obs. | Mean | Std. Dev. | Min | Max |
| *Mental health variables* |  |  |  |  |  |
| Bipolar | 20257 | 0.00 | 0.03 | 0.00 | 1.00 |
| Depression | 20257 | 0.01 | 0.12 | 0.00 | 1.00 |
| Anxiety | 20257 | 0.01 | 0.12 | 0.00 | 1.00 |
| PTSD | 20257 | 0.00 | 0.05 | 0.00 | 1.00 |
| Eating disorder | 20257 | 0.00 | 0.03 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Participation variables* |  |  |  |  |  |
| Voted | 20257 | 0.81 | 0.39 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Controls* |  |  |  |  |  |
| Gender (male=1) | 20257 | 0.45 | 0.50 | 0.00 | 1.00 |
| Age | 20257 | 50.30 | 18.57 | 16.00 | 98.00 |
|  |  |  |  |  |  |
| *Education* |  |  |  |  |  |
| Lower secondary | 20257 | 0.27 | 0.45 | 0.00 | 1.00 |
| Upper secondary | 20257 | 0.21 | 0.41 | 0.00 | 1.00 |
| Bachelor | 20257 | 0.29 | 0.45 | 0.00 | 1.00 |
| Masters | 20257 | 0.14 | 0.35 | 0.00 | 1.00 |
| Other | 20257 | 0.09 | 0.28 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Employment status* |  |  |  |  |  |
| Self employed | 20257 | 0.08 | 0.27 | 0.00 | 1.00 |
| Paid employment(ft/pt) | 20257 | 0.48 | 0.50 | 0.00 | 1.00 |
| Unemployed | 20257 | 0.04 | 0.20 | 0.00 | 1.00 |
| Retired | 20257 | 0.26 | 0.44 | 0.00 | 1.00 |
| Maternity leave / Family care | 20257 | 0.04 | 0.20 | 0.00 | 1.00 |
| Full-time student | 20257 | 0.05 | 0.22 | 0.00 | 1.00 |
| LT sick or disabled | 20257 | 0.03 | 0.18 | 0.00 | 1.00 |
| Other | 20257 | 0.02 | 0.12 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Marital status* |  |  |  |  |  |
| Single | 20257 | 0.29 | 0.46 | 0.00 | 1.00 |
| Married | 20257 | 0.54 | 0.50 | 0.00 | 1.00 |
| Separated/divorced | 20257 | 0.10 | 0.31 | 0.00 | 1.00 |
| Widowed | 20257 | 0.06 | 0.24 | 0.00 | 1.00 |
|  | | | | | |

**ACL: Descriptive statistics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptive Statistics** | | | | | |
| Variable | Obs | Mean | Std. Dev. | Min | Max |
| *Mental health variable* |  |  |  |  |  |
| cesdindex | 2781 | 5.46 | 4.50 | 0.00 | 24.00 |
|  |  |  |  |  |  |
| *Participation variables* |  |  |  |  |  |
| Voted | 2781 | 0.71 | 0.45 | 0.00 | 1.00 |
| Membership in political organization | 2781 | 0.07 | 0.25 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Controls* |  |  |  |  |  |
| Gender (1=male) | 2781 | 0.36 | 0.48 | 0.00 | 1.00 |
| Age | 2781 | 52.68 | 17.02 | 25.00 | 94.00 |
|  |  |  |  |  |  |
| *Marital Status* |  |  |  |  |  |
| Married | 2781 | 0.57 | 0.50 | 0.00 | 1.00 |
| Widowed | 2781 | 0.17 | 0.37 | 0.00 | 1.00 |
| Divorced/Separated | 2781 | 0.16 | 0.37 | 0.00 | 1.00 |
| Never married | 2781 | 0.10 | 0.30 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Employment status* |  |  |  |  |  |
| Low SES | 2781 | 0.28 | 0.45 | 0.00 | 1.00 |
| Lower-Middle SES | 2781 | 0.31 | 0.46 | 0.00 | 1.00 |
| Upper-Middle SES | 2781 | 0.29 | 0.45 | 0.00 | 1.00 |
| High SES | 2781 | 0.12 | 0.33 | 0.00 | 1.00 |
| Professional Manager | 2781 | 0.19 | 0.39 | 0.00 | 1.00 |
| Cler Sal | 2781 | 0.12 | 0.33 | 0.00 | 1.00 |
| Craf kin | 2781 | 0.06 | 0.23 | 0.00 | 1.00 |
| Operatv | 2781 | 0.06 | 0.24 | 0.00 | 1.00 |
| Laborer | 2781 | 0.02 | 0.14 | 0.00 | 1.00 |
| Service\_worker | 2781 | 0.10 | 0.29 | 0.00 | 1.00 |
| Retired | 2781 | 0.22 | 0.41 | 0.00 | 1.00 |
| Disabled | 2781 | 0.03 | 0.17 | 0.00 | 1.00 |
| Unemployed | 2781 | 0.04 | 0.20 | 0.00 | 1.00 |
| Keeping house | 2781 | 0.16 | 0.37 | 0.00 | 1.00 |
|  |  |  |  |  |  |
| *Race* |  |  |  |  |  |
| White | 2781 | 0.67 | 0.47 | 0.00 | 1.00 |
| Black | 2781 | 0.30 | 0.46 | 0.00 | 1.00 |
| American indian | 2781 | 0.01 | 0.12 | 0.00 | 1.00 |
| Asian | 2781 | 0.01 | 0.08 | 0.00 | 1.00 |
| Hispanic | 2781 | 0.01 | 0.10 | 0.00 | 1.00 |
|  | | | | | |

**Section E: Regression Tables**

**FIGURE 1:**

**Table E1. YouGov data, Figure 1, left panel. Logit, Dependent variable: voting**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | Bipolar | Depression | Anxiety | OCD | PTSD | Eating disorder | Personality disorder |
|  |  |  |  |  |  |  |  |
| Mental health condition | 0.08 | -0.07 | 0.15 | -1.12\* | 0.30 | 0.20 | -0.33 |
|  | (0.64) | (0.18) | (0.17) | (0.49) | (0.31) | (0.35) | (0.50) |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Female | -0.66\*\* | -0.66\*\* | -0.67\*\* | -0.64\*\* | -0.67\*\* | -0.67\*\* | -0.66\*\* |
|  | (0.13) | (0.13) | (0.13) | (0.13) | (0.13) | (0.13) | (0.13) |
| Age | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 |
|  | (0.03) | (0.03) | (0.03) | (0.03) | (0.03) | (0.03) | (0.03) |
| Age (squared) | 0.00\* | 0.00\* | 0.00\* | 0.00\* | 0.00\* | 0.00\* | 0.00\* |
|  | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) |
| Educationa |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 2 | -0.21 | -0.22 | -0.21 | -0.21 | -0.23 | -0.22 | -0.21 |
|  | (0.36) | (0.36) | (0.36) | (0.36) | (0.36) | (0.36) | (0.36) |
| 3 | 0.18 | 0.17 | 0.19 | 0.20 | 0.17 | 0.19 | 0.18 |
|  | (0.26) | (0.26) | (0.26) | (0.26) | (0.26) | (0.26) | (0.26) |
| 4 | 0.42 | 0.41 | 0.42 | 0.42 | 0.40 | 0.42 | 0.41 |
|  | (0.27) | (0.27) | (0.27) | (0.27) | (0.27) | (0.27) | (0.27) |
| 5 | 1.15\*\* | 1.15\*\* | 1.16\*\* | 1.16\*\* | 1.14\*\* | 1.16\*\* | 1.15\*\* |
|  | (0.27) | (0.27) | (0.27) | (0.27) | (0.27) | (0.26) | (0.27) |
| 6 | 1.15\*\* | 1.15\*\* | 1.16\*\* | 1.17\*\* | 1.15\*\* | 1.16\*\* | 1.15\*\* |
|  | (0.31) | (0.31) | (0.31) | (0.31) | (0.31) | (0.31) | (0.31) |
| 7 | 0.89\*\* | 0.88\*\* | 0.89\*\* | 0.89\*\* | 0.87\*\* | 0.89\*\* | 0.89\*\* |
|  | (0.30) | (0.30) | (0.30) | (0.30) | (0.30) | (0.30) | (0.30) |
| Employment status: |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Unemployed | -0.21 | -0.20 | -0.24 | -0.16 | -0.23 | -0.21 | -0.20 |
|  | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) |
| Student | 0.93\* | 0.92\* | 0.94\* | 0.92\* | 0.93\* | 0.94\* | 0.93\* |
|  | (0.47) | (0.47) | (0.47) | (0.46) | (0.47) | (0.47) | (0.47) |
| Pensioner | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.03 | 0.04 |
|  | (0.22) | (0.22) | (0.22) | (0.22) | (0.22) | (0.22) | (0.22) |
| Marital status: |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Married | 0.08 | 0.07 | 0.08 | 0.07 | 0.07 | 0.08 | 0.07 |
|  | (0.17) | (0.17) | (0.17) | (0.17) | (0.17) | (0.17) | (0.17) |
| Divorced | -0.06 | -0.06 | -0.06 | -0.07 | -0.06 | -0.06 | -0.06 |
|  | (0.24) | (0.24) | (0.24) | (0.24) | (0.24) | (0.24) | (0.24) |
| Widowed | 0.17 | 0.17 | 0.18 | 0.16 | 0.17 | 0.17 | 0.18 |
|  | (0.32) | (0.32) | (0.32) | (0.32) | (0.32) | (0.32) | (0.32) |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Intercept | 1.44 | 1.45 | 1.41 | 1.43 | 1.46 | 1.40 | 1.45 |
|  | (0.75) | (0.75) | (0.74) | (0.75) | (0.75) | (0.75) | (0.75) |
|  |  |  |  |  |  |  |  |
| Observations | 1658 | 1658 | 1658 | 1658 | 1658 | 1658 | 1658 |
| Pseudo R2 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05. aFor education categories see Control variable table in Section C* | | | | | | | |

**Table E2. YouGov data, Figure 1, left panel. Poisson pseudo-likelihood regression with fixed effects, Dependent variable: Political participation**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | |
| Variables | Bipolar | Depression | Anxiety | OCD | PTSD | Eating disorder | Personality disorder |
|  |  |  |  |  |  |  |  |
| Mental health condition | 0.45\*\* | 0.34\*\* | 0.18\* | 0.07 | 0.50\*\* | 0.20 | 0.41\* |
|  | (0.17) | (0.08) | (0.09) | (0.32) | (0.12) | (0.18) | (0.20) |
|  |  |  |  |  |  |  |  |
| Female | 0.02 | 0.02 | 0.01 | 0.02 | 0.01 | 0.02 | 0.02 |
|  | (0.07) | (0.07) | (0.07) | (0.07) | (0.07) | (0.07) | (0.07) |
| Age | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.00 | -0.01 |
|  | (0.02) | (0.01) | (0.02) | (0.02) | (0.01) | (0.02) | (0.02) |
| Age (squared) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) |
| Educationa |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 2 | 0.08 | 0.08 | 0.08 | 0.07 | 0.04 | 0.06 | 0.07 |
|  | (0.28) | (0.28) | (0.28) | (0.28) | (0.27) | (0.28) | (0.28) |
| 3 | 0.26 | 0.28 | 0.28 | 0.26 | 0.26 | 0.27 | 0.26 |
|  | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) |
| 4 | 0.70\*\* | 0.71\*\* | 0.70\*\* | 0.70\*\* | 0.67\*\* | 0.71\*\* | 0.70\*\* |
|  | (0.20) | (0.20) | (0.19) | (0.20) | (0.20) | (0.20) | (0.20) |
| 5 | 1.00\*\* | 1.01\*\* | 1.01\*\* | 1.00\*\* | 0.98\*\* | 1.01\*\* | 1.00\*\* |
|  | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) |
| 6 | 1.11\*\* | 1.12\*\* | 1.12\*\* | 1.11\*\* | 1.11\*\* | 1.12\*\* | 1.11\*\* |
|  | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) |
| 7 | 0.98\*\* | 0.99\*\* | 0.98\*\* | 0.97\*\* | 0.95\*\* | 0.98\*\* | 0.97\*\* |
|  | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) |
| Employment status: |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Unemployed | -0.01 | -0.08 | -0.04 | -0.00 | -0.04 | -0.00 | -0.01 |
|  | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) |
| Student | 0.04 | 0.07 | 0.04 | 0.04 | 0.03 | 0.04 | 0.03 |
|  | (0.23) | (0.23) | (0.23) | (0.23) | (0.23) | (0.23) | (0.23) |
| Pensioner | -0.08 | -0.07 | -0.07 | -0.08 | -0.06 | -0.08 | -0.08 |
|  | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) |
| Marital status: |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Married | 0.13 | 0.16 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
|  | (0.09) | (0.09) | (0.09) | (0.09) | (0.09) | (0.09) | (0.09) |
| Divorced | 0.08 | 0.08 | 0.08 | 0.08 | 0.06 | 0.08 | 0.08 |
|  | (0.13) | (0.13) | (0.13) | (0.13) | (0.13) | (0.13) | (0.13) |
| Widowed | 0.20 | 0.19 | 0.19 | 0.19 | 0.18 | 0.19 | 0.18 |
|  | (0.18) | (0.18) | (0.18) | (0.18) | (0.18) | (0.18) | (0.18) |
|  |  |  |  |  |  |  |  |
| Intercept | -0.88\* | -0.91\* | -0.89\* | -0.87\* | -0.84\* | -0.91\* | -0.88\* |
|  | (0.41) | (0.40) | (0.41) | (0.41) | (0.40) | (0.41) | (0.41) |
|  |  |  |  |  |  |  |  |
| Observations | 1658 | 1658 | 1658 | 1658 | 1658 | 1658 | 1658 |
| Pseudo R2 | 0.04 | 0.05 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05. aFor education categories see Control variable table in Section C* | | | | | | | |

**Table E3. LISS data, Figure 1, middle panel. Fixed effects logit, Dependent variable: voting**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | BSI somatic | BSI cognitive | BSI interpersonal | BSI depression | BSI fear | BSI hostility | BSI phobic | BSI paranoid | BSI psychoticism |
|  |  |  |  |  |  |  |  |  |  |
| Mental health condition | 0.311 | 0.264 | 0.349 | 0.483 | 0.355 | 0.236 | -0.188 | 0.221 | 0.139 |
|  | (0.476) | (0.482) | (0.446) | (0.513) | (0.386) | (0.409) | (0.648) | (0.435) | (0.550) |
| Age | -0.054 | -0.041 | -0.064 | -0.048 | -0.045 | -0.027 | -0.039 | -0.044 | -0.046 |
|  | (0.489) | (0.488) | (0.490) | (0.488) | (0.489) | (0.489) | (0.487) | (0.487) | (0.487) |
| Age (squared) | -0.004 | -0.004 | -0.004 | -0.004 | -0.004 | -0.004 | -0.004 | -0.004 | -0.004 |
|  | (0.002) | (0.002) | (0.002) | (0.002) | (0.002) | (0.002) | (0.002) | (0.002) | (0.002) |
| Education |  |  |  |  |  |  |  |  |  |
| Primary school | 14.339 | 14.315 | 14.367 | 14.398 | 15.662 | 15.079 | 14.328 | 14.323 | 14.323 |
|  | (435.235) | (435.800) | (436.713) | (434.964) | (858.242) | (635.802) | (438.745) | (435.291) | (438.394) |
| Intermediate secondary | 14.829 | 14.859 | 14.872 | 14.934 | 16.211 | 15.629 | 14.883 | 14.886 | 14.866 |
|  | (435.235) | (435.800) | (436.713) | (434.964) | (858.242) | (635.802) | (438.745) | (435.291) | (438.394) |
| Higher secondary | 13.415 | 13.406 | 13.475 | 13.488 | 14.794 | 14.173 | 13.413 | 13.462 | 13.415 |
|  | (435.233) | (435.798) | (436.711) | (434.961) | (858.241) | (635.800) | (438.743) | (435.289) | (438.391) |
| Intermediate vocational | 15.714 | 15.692 | 15.693 | 15.764 | 17.096 | 16.495 | 15.727 | 15.721 | 15.720 |
|  | (435.236) | (435.801) | (436.713) | (434.964) | (858.243) | (635.802) | (438.746) | (435.292) | (438.394) |
| Higher vocational | 16.660 | 16.714 | 16.742 | 16.818 | 18.136 | 17.513 | 16.737 | 16.716 | 16.741 |
|  | (435.236) | (435.801) | (436.714) | (434.965) | (858.243) | (635.803) | (438.746) | (435.293) | (438.395) |
| Marital status |  |  |  |  |  |  |  |  |  |
| Divorced/Separated | 1.161 | 1.143 | 1.143 | 1.148 | 1.035 | 1.171 | 1.080 | 1.124 | 1.144 |
|  | (1.778) | (1.748) | (1.777) | (1.749) | (1.796) | (1.778) | (1.756) | (1.762) | (1.754) |
| Widow or widower | 0.953 | 0.914 | 0.934 | 0.878 | 0.865 | 0.988 | 0.891 | 0.952 | 0.961 |
|  | (1.335) | (1.332) | (1.349) | (1.320) | (1.372) | (1.365) | (1.332) | (1.339) | (1.344) |
| Never been married | 0.339 | 0.341 | 0.327 | 0.321 | 0.370 | 0.366 | 0.294 | 0.334 | 0.310 |
|  | (0.887) | (0.891) | (0.884) | (0.890) | (0.892) | (0.895) | (0.883) | (0.887) | (0.886) |
| Employment status |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Unemployed/not payed employment | -0.186 | -0.161 | -0.181 | -0.193 | -0.176 | -0.184 | -0.198 | -0.182 | -0.197 |
|  | (0.528) | (0.532) | (0.528) | (0.529) | (0.526) | (0.527) | (0.528) | (0.528) | (0.528) |
| Student | -0.033 | -0.092 | -0.134 | -0.144 | -0.024 | -0.035 | -0.074 | -0.076 | -0.085 |
|  | (0.959) | (0.960) | (0.959) | (0.963) | (0.956) | (0.956) | (0.956) | (0.956) | (0.957) |
| Pensioner | 0.310 | 0.320 | 0.304 | 0.322 | 0.306 | 0.328 | 0.322 | 0.321 | 0.307 |
|  | (0.656) | (0.654) | (0.656) | (0.656) | (0.655) | (0.656) | (0.655) | (0.654) | (0.656) |
|  |  |  |  |  |  |  |  |  |  |
| Panel fixed effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
|  |  |  |  |  |  |  |  |  |  |
| Observations | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 |
| Pseudo R2 | 0.072 | 0.072 | 0.072 | 0.073 | 0.073 | 0.072 | 0.071 | 0.072 | 0.071 |
| *Notes: Standard errors are in parentheses. \*\* p<.01, \* p<.05* | | | | | | | | | |

**Table E4. LISS data, Figure 1, middle panel, Poisson pseudo-likelihood regression with multiple levels of fixed effects, Dependent variable: political participation**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | BSI somatic | BSI cognitive | BSI interpersonal | BSI depression | BSI fear | BSI hostility | BSI phobic | BSI paranoid | BSI psychoticism |
| Mental health condition | 0.125 | 0.224\* | 0.241\* | 0.172 | 0.166 | 0.064 | 0.199 | 0.104 | 0.140 |
|  | (0.113) | (0.104) | (0.107) | (0.121) | (0.095) | (0.091) | (0.148) | (0.100) | (0.132) |
| Age | -0.140\* | -0.136\* | -0.140\* | -0.138\* | -0.133\* | -0.141\* | -0.140\* | -0.140\* | -0.138\* |
|  | (0.059) | (0.059) | (0.060) | (0.059) | (0.059) | (0.059) | (0.060) | (0.059) | (0.060) |
| Age (squared) | 0.001\*\* | 0.001\*\* | 0.001\*\* | 0.001\*\* | 0.001\*\* | 0.001\*\* | 0.001\*\* | 0.001\*\* | 0.001\*\* |
|  | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) |
| Education |  |  |  |  |  |  |  |  |  |
| Primary school | -0.066 | -0.089 | -0.046 | -0.078 | -0.085 | -0.076 | -0.064 | -0.073 | -0.085 |
|  | (0.259) | (0.256) | (0.255) | (0.256) | (0.256) | (0.258) | (0.258) | (0.260) | (0.261) |
| Intermediate secondary | -0.210 | -0.209 | -0.196 | -0.206 | -0.216 | -0.202 | -0.198 | -0.201 | -0.204 |
|  | (0.307) | (0.304) | (0.303) | (0.303) | (0.305) | (0.306) | (0.306) | (0.308) | (0.308) |
| Higher secondary | -0.027 | -0.068 | -0.054 | -0.037 | -0.066 | -0.042 | -0.056 | -0.044 | -0.054 |
|  | (0.234) | (0.231) | (0.235) | (0.232) | (0.232) | (0.234) | (0.235) | (0.235) | (0.235) |
| Intermediate vocational | -0.037 | -0.055 | -0.030 | -0.044 | -0.068 | -0.051 | -0.043 | -0.049 | -0.054 |
|  | (0.306) | (0.302) | (0.303) | (0.303) | (0.303) | (0.303) | (0.303) | (0.305) | (0.305) |
| Higher vocational | -0.031 | -0.065 | -0.040 | -0.034 | -0.054 | -0.034 | -0.057 | -0.051 | -0.056 |
|  | (0.245) | (0.242) | (0.245) | (0.243) | (0.243) | (0.245) | (0.246) | (0.247) | (0.248) |
| Marital status |  |  |  |  |  |  |  |  |  |
| Divorced/Separated | 0.266 | 0.287 | 0.269 | 0.293 | 0.276 | 0.282 | 0.297 | 0.260 | 0.275 |
|  | (0.256) | (0.255) | (0.234) | (0.258) | (0.252) | (0.255) | (0.260) | (0.252) | (0.261) |
| Widow or widower | -0.181 | -0.193 | -0.174 | -0.171 | -0.186 | -0.171 | -0.171 | -0.184 | -0.172 |
|  | (0.374) | (0.374) | (0.368) | (0.373) | (0.379) | (0.377) | (0.381) | (0.375) | (0.378) |
| Never been married | -0.064 | -0.050 | -0.076 | -0.073 | -0.053 | -0.063 | -0.060 | -0.059 | -0.069 |
|  | (0.309) | (0.313) | (0.303) | (0.313) | (0.316) | (0.311) | (0.310) | (0.311) | (0.310) |
| Employment status |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Unemployed/not payed employment | -0.318\* | -0.310\* | -0.323\* | -0.315\* | -0.311\* | -0.316\* | -0.318\* | -0.317\* | -0.322\* |
|  | (0.151) | (0.151) | (0.152) | (0.152) | (0.151) | (0.151) | (0.151) | (0.152) | (0.151) |
| Student | -0.116 | -0.109 | -0.123 | -0.125 | -0.110 | -0.117 | -0.128 | -0.123 | -0.122 |
|  | (0.206) | (0.209) | (0.211) | (0.207) | (0.209) | (0.206) | (0.207) | (0.206) | (0.207) |
| Pensioner | -0.144 | -0.147 | -0.156 | -0.142 | -0.128 | -0.142 | -0.160 | -0.138 | -0.150 |
|  | (0.174) | (0.174) | (0.173) | (0.173) | (0.173) | (0.173) | (0.171) | (0.174) | (0.172) |
|  |  |  |  |  |  |  |  |  |  |
| Panel fixed effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
|  |  |  |  |  |  |  |  |  |  |
| Intercept | 1.695 | 1.577 | 1.874 | 1.653 | 1.414 | 1.800 | 1.738 | 1.741 | 1.611 |
|  | (2.261) | (2.257) | (2.285) | (2.238) | (2.216) | (2.242) | (2.262) | (2.261) | (2.272) |
| Observations | 2646 | 2646 | 2646 | 2646 | 2646 | 2646 | 2646 | 2646 | 2646 |
| Pseudo R2 | 0.134 | 0.135 | 0.135 | 0.135 | 0.135 | 0.134 | 0.135 | 0.134 | 0.134 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05* | | | | | | | | | |

**Table E5. SOEP data, Figure 1, right panel. Fixed effects logit (voting) and fixed effects ordered logit (participation).**

|  |  |  |
| --- | --- | --- |
|  | | |
| Variables | Voting | Political participation |
|  |  |  |
| Depression (lagged) | 0.053 |  |
|  | (0.147) |  |
| Depression (current) |  | 0.108 |
|  |  | (0.095) |
| Age | 0.405 | 0.020 |
|  | (0.852) | (0.159) |
| Age (Squared) | -0.001\*\* | -0.001\*\* |
|  | (0.000) | (0.000) |
|  |  |  |
| Married | 0.252\* | -0.054 |
|  | (0.126) | (0.089) |
| Employed | 0.071 | -0.135\* |
|  | (0.103) | (0.060) |
|  |  |  |
| Education |  |  |
|  |  |  |
| Intermediate |  | -0.156 |
|  |  | (0.631) |
| Maturity certificate |  | -0.000 |
|  |  | (0.615) |
| Tertiary |  | -0.318 |
|  |  | (0.614) |
|  |  |  |
| Panel (wave) effects | Yes | Yes |
|  |  |  |
| Observations | 5202 | 34285 |
| *Notes: Standard errors are in parentheses. \*\* p<.01, \* p<.05* | | |

**FIGURE 3:**

**Table E6. YouGov data, Figure 3, left panel. Poisson pseudo-likelihood regression with fixed effects, Dependent variable: Physical political participation**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | |
| Variables | Bipolar | Depression | Anxiety | OCD | PTSD | Eating disorder | Personality disorder |
|  |  |  |  |  |  |  |  |
| Mental health condition | -0.04 | 0.14 | -0.02 | 0.35 | 0.98\* | -0.29 | -0.34 |
|  | (1.08) | (0.35) | (0.38) | (0.97) | (0.42) | (0.93) | (1.00) |
|  |  |  |  |  |  |  |  |
| Female | -0.50\* | -0.50\* | -0.50\* | -0.51\* | -0.55\* | -0.49\* | -0.50\* |
|  | (0.25) | (0.25) | (0.25) | (0.25) | (0.25) | (0.25) | (0.25) |
| Age | -0.09 | -0.09 | -0.08 | -0.09 | -0.09 | -0.09 | -0.09 |
|  | (0.06) | (0.06) | (0.06) | (0.06) | (0.06) | (0.06) | (0.06) |
| Age (squared) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) |
| Educationa |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 2 | -0.70 | -0.69 | -0.70 | -0.71 | -0.73 | -0.71 | -0.70 |
|  | (0.63) | (0.64) | (0.63) | (0.63) | (0.64) | (0.64) | (0.63) |
| 3 | -0.47 | -0.47 | -0.47 | -0.47 | -0.55 | -0.48 | -0.47 |
|  | (0.64) | (0.64) | (0.64) | (0.64) | (0.64) | (0.64) | (0.64) |
| 4 | 0.43 | 0.43 | 0.43 | 0.42 | 0.39 | 0.41 | 0.43 |
|  | (0.59) | (0.59) | (0.59) | (0.59) | (0.59) | (0.59) | (0.59) |
| 5 | -0.03 | -0.03 | -0.03 | -0.04 | -0.04 | -0.05 | -0.03 |
|  | (0.66) | (0.66) | (0.66) | (0.66) | (0.66) | (0.66) | (0.66) |
| 6 | 0.23 | 0.24 | 0.23 | 0.23 | 0.17 | 0.23 | 0.24 |
|  | (0.63) | (0.63) | (0.62) | (0.63) | (0.63) | (0.63) | (0.63) |
| 7 | -0.70 | -0.69 | -0.70 | -0.71 | -0.73 | -0.71 | -0.70 |
|  | (0.63) | (0.64) | (0.63) | (0.63) | (0.64) | (0.64) | (0.63) |
| Employment status: |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Unemployed | -0.04 | -0.08 | -0.03 | -0.05 | -0.10 | -0.04 | -0.03 |
|  | (0.46) | (0.49) | (0.49) | (0.47) | (0.47) | (0.46) | (0.46) |
| Student | -0.38 | -0.37 | -0.38 | -0.38 | -0.36 | -0.39 | -0.38 |
|  | (0.68) | (0.68) | (0.68) | (0.68) | (0.68) | (0.68) | (0.68) |
| Pensioner | 0.03 | 0.03 | 0.03 | 0.03 | 0.06 | 0.03 | 0.03 |
|  | (0.53) | (0.53) | (0.53) | (0.53) | (0.52) | (0.53) | (0.53) |
| Marital status: |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Married | 0.03 | 0.05 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 |
|  | (0.31) | (0.31) | (0.31) | (0.31) | (0.31) | (0.31) | (0.31) |
| Divorced | 0.31 | 0.30 | 0.31 | 0.31 | 0.29 | 0.30 | 0.31 |
|  | (0.45) | (0.45) | (0.45) | (0.45) | (0.45) | (0.45) | (0.45) |
| Widowed | 0.27 | 0.26 | 0.27 | 0.27 | 0.23 | 0.26 | 0.27 |
|  | (0.84) | (0.84) | (0.84) | (0.84) | (0.85) | (0.84) | (0.85) |
|  |  |  |  |  |  |  |  |
| Intercept | -0.36 | -0.37 | -0.36 | -0.36 | -0.24 | -0.33 | -0.36 |
|  | (1.47) | (1.46) | (1.46) | (1.45) | (1.45) | (1.46) | (1.46) |
|  |  |  |  |  |  |  |  |
| Observations | 1601 | 1601 | 1601 | 1601 | 1601 | 1601 | 1601 |
| Pseudo R2 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05. aFor education categories see Control variable table in Section C* | | | | | | | |

**Table E7. YouGov data, Figure 3, left panel. Poisson pseudo-likelihood regression with fixed effects, Dependent variable: Non-physical political participation**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | |
| Variables | Bipolar | Depression | Anxiety | OCD | PTSD | Eating disorder | Personality disorder |
|  |  |  |  |  |  |  |  |
| Mental health condition | 0.47\*\* | 0.35\*\* | 0.19\* | 0.06 | 0.47\*\* | 0.22 | 0.44\* |
|  | (0.18) | (0.08) | (0.09) | (0.34) | (0.11) | (0.19) | (0.19) |
|  |  |  |  |  |  |  |  |
| Female | 0.05 | 0.04 | 0.04 | 0.05 | 0.04 | 0.05 | 0.05 |
|  | (0.07) | (0.07) | (0.07) | (0.07) | (0.07) | (0.07) | (0.07) |
| Age | 0.00 | -0.00 | -0.00 | 0.00 | -0.00 | 0.00 | 0.00 |
|  | (0.02) | (0.02) | (0.02) | (0.02) | (0.02) | (0.02) | (0.02) |
| Age (squared) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) | (0.00) |
| Educationa |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 2 | 0.17 | 0.17 | 0.17 | 0.17 | 0.14 | 0.16 | 0.16 |
|  | (0.28) | (0.28) | (0.28) | (0.28) | (0.28) | (0.28) | (0.28) |
| 3 | 0.32 | 0.34 | 0.34 | 0.33 | 0.32 | 0.33 | 0.33 |
|  | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) |
| 4 | 0.78\*\* | 0.78\*\* | 0.78\*\* | 0.77\*\* | 0.75\*\* | 0.78\*\* | 0.78\*\* |
|  | (0.20) | (0.20) | (0.19) | (0.20) | (0.19) | (0.20) | (0.20) |
| 5 | 1.04\*\* | 1.05\*\* | 1.05\*\* | 1.04\*\* | 1.03\*\* | 1.05\*\* | 1.04\*\* |
|  | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) | (0.19) |
| 6 | 1.18\*\* | 1.19\*\* | 1.19\*\* | 1.18\*\* | 1.18\*\* | 1.19\*\* | 1.18\*\* |
|  | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) | (0.20) |
| 7 | 1.03\*\* | 1.05\*\* | 1.03\*\* | 1.03\*\* | 1.01\*\* | 1.03\*\* | 1.02\*\* |
|  | (0.20) | (0.20) | (0.19) | (0.20) | (0.20) | (0.20) | (0.20) |
| Employment status: |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Unemployed | -0.01 | -0.08 | -0.04 | -0.00 | -0.04 | -0.00 | -0.01 |
|  | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) |
| Student | 0.07 | 0.10 | 0.07 | 0.07 | 0.07 | 0.08 | 0.07 |
|  | (0.22) | (0.22) | (0.23) | (0.23) | (0.23) | (0.23) | (0.23) |
| Pensioner | -0.08 | -0.07 | -0.08 | -0.08 | -0.07 | -0.09 | -0.09 |
|  | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) | (0.11) |
| Marital status: |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Married | 0.14 | 0.17 | 0.14 | 0.14 | 0.13 | 0.14 | 0.13 |
|  | (0.09) | (0.09) | (0.09) | (0.09) | (0.09) | (0.09) | (0.09) |
| Divorced | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.07 | 0.07 |
|  | (0.12) | (0.12) | (0.13) | (0.12) | (0.12) | (0.12) | (0.13) |
| Widowed | 0.20 | 0.18 | 0.19 | 0.19 | 0.18 | 0.19 | 0.18 |
|  | (0.17) | (0.17) | (0.17) | (0.17) | (0.17) | (0.17) | (0.17) |
|  |  |  |  |  |  |  |  |
| Intercept | -1.17\*\* | -1.19\*\* | -1.18\*\* | -1.16\*\* | -1.13\*\* | -1.20\*\* | -1.17\*\* |
|  | (0.42) | (0.41) | (0.42) | (0.42) | (0.42) | (0.42) | (0.42) |
|  |  |  |  |  |  |  |  |
| Observations | 1658 | 1658 | 1658 | 1658 | 1658 | 1658 | 1658 |
| Pseudo R2 | 0.04 | 0.05 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05. aFor education categories see Control variable table in Section C* | | | | | | | |

**Table E8. LISS data, Figure 3, right panel, Poisson pseudo-likelihood regression with multiple levels of fixed effects, Dependent variable: Physical political participation**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | BSI somatic | BSI cognitive | BSI interpersonal | BSI depression | BSI fear | BSI hostility | BSI phobic | BSI paranoid | BSI psychoticism |
| Mental health condition | -0.036 | 0.245 | 0.141 | 0.209 | 0.320\* | 0.343\* | 0.466\* | 0.083 | 0.512\* |
|  | (0.186) | (0.165) | (0.170) | (0.200) | (0.158) | (0.150) | (0.237) | (0.168) | (0.213) |
| Age | -0.175 | -0.172 | -0.178 | -0.176 | -0.164 | -0.185 | -0.178 | -0.175 | -0.162 |
|  | (0.111) | (0.111) | (0.111) | (0.110) | (0.109) | (0.108) | (0.110) | (0.110) | (0.112) |
| Age (squared) | 0.003\*\* | 0.003\*\* | 0.003\*\* | 0.003\*\* | 0.003\*\* | 0.003\*\* | 0.003\*\* | 0.003\*\* | 0.003\*\* |
|  | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) |
| Education |  |  |  |  |  |  |  |  |  |
| Primary school | 0.377 | 0.356 | 0.392 | 0.345 | 0.340 | 0.356 | 0.415\* | 0.361 | 0.232 |
|  | (0.216) | (0.220) | (0.226) | (0.224) | (0.223) | (0.222) | (0.211) | (0.218) | (0.238) |
| Intermediate secondary | 0.235 | 0.166 | 0.186 | 0.161 | 0.158 | 0.194 | 0.215 | 0.192 | 0.078 |
|  | (0.671) | (0.682) | (0.681) | (0.680) | (0.687) | (0.680) | (0.679) | (0.675) | (0.688) |
| Higher secondary | -0.221 | -0.273 | -0.226 | -0.237 | -0.322 | -0.276 | -0.304 | -0.245 | -0.436 |
|  | (0.390) | (0.395) | (0.399) | (0.390) | (0.398) | (0.401) | (0.401) | (0.391) | (0.409) |
| Intermediate vocational | 0.620 | 0.615 | 0.624 | 0.613 | 0.596 | 0.673 | 0.666 | 0.610 | 0.532 |
|  | (0.455) | (0.462) | (0.466) | (0.468) | (0.477) | (0.467) | (0.461) | (0.457) | (0.469) |
| Higher vocational | 0.336 | 0.311 | 0.344 | 0.341 | 0.313 | 0.376 | 0.310 | 0.315 | 0.183 |
|  | (0.233) | (0.238) | (0.247) | (0.241) | (0.241) | (0.242) | (0.227) | (0.233) | (0.255) |
| Marital status |  |  |  |  |  |  |  |  |  |
| Divorced/Separated | 0.931 | 0.949 | 0.912 | 0.958 | 0.905 | 0.942 | 0.975 | 0.917 | 0.936 |
|  | (0.556) | (0.555) | (0.532) | (0.568) | (0.543) | (0.548) | (0.575) | (0.546) | (0.574) |
| Widow or widower | -0.420 | -0.398 | -0.406 | -0.366 | -0.581 | -0.361 | -0.413 | -0.418 | -0.413 |
|  | (0.938) | (0.937) | (0.926) | (0.932) | (0.928) | (0.950) | (0.970) | (0.933) | (0.950) |
| Never been married | 0.816 | 0.871 | 0.787 | 0.826 | 0.893 | 0.862 | 0.817 | 0.809 | 0.828 |
|  | (0.523) | (0.542) | (0.525) | (0.532) | (0.549) | (0.547) | (0.545) | (0.525) | (0.547) |
| Employment status |  |  |  |  |  |  |  |  |  |
| Unemployed/not payed employment | -0.425 | -0.418 | -0.434 | -0.428 | -0.418 | -0.431\* | -0.436\* | -0.429 | -0.452\* |
|  | (0.225) | (0.221) | (0.224) | (0.223) | (0.217) | (0.218) | (0.219) | (0.223) | (0.220) |
| Student | 0.451 | 0.475 | 0.448 | 0.442 | 0.464 | 0.446 | 0.443 | 0.446 | 0.455 |
|  | (0.483) | (0.487) | (0.486) | (0.483) | (0.494) | (0.489) | (0.492) | (0.483) | (0.489) |
| Pensioner | -0.052 | -0.057 | -0.064 | -0.057 | -0.028 | -0.073 | -0.097 | -0.054 | -0.103 |
|  | (0.256) | (0.258) | (0.255) | (0.256) | (0.257) | (0.250) | (0.249) | (0.256) | (0.250) |
|  |  |  |  |  |  |  |  |  |  |
| Intercept | -1.692 | -1.902 | -1.476 | -1.743 | -2.387 | -1.342 | -1.648 | -1.701 | -2.397 |
|  | (4.541) | (4.560) | (4.579) | (4.507) | (4.483) | (4.359) | (4.529) | (4.541) | (4.658) |
|  |  |  |  |  |  |  |  |  |  |
| Panel fixed effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
|  |  |  |  |  |  |  |  |  |  |
| Observations | 1321 | 1321 | 1321 | 1321 | 1321 | 1321 | 1321 | 1321 | 1321 |
| Pseudo R2 | 0.129 | 0.129 | 0.129 | 0.129 | 0.130 | 0.130 | 0.130 | 0.129 | 0.130 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05* | | | | | | | | | |

**Table E9. LISS data, Figure 3, left panel, Poisson pseudo-likelihood regression with multiple levels of fixed effects, Dependent variable: Non-physical political participation**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | BSI somatic | BSI cognitive | BSI interpersonal | BSI depression | BSI fear | BSI hostility | BSI phobic | BSI paranoid | BSI psychoticism |
| Mental health condition | 0.194 | 0.244\* | 0.288\* | 0.164 | 0.109 | -0.063 | 0.086 | 0.107 | -0.050 |
|  | (0.123) | (0.112) | (0.118) | (0.132) | (0.101) | (0.102) | (0.165) | (0.109) | (0.146) |
| Age | -0.183\* | -0.179\* | -0.180\* | -0.180\* | -0.179\* | -0.185\* | -0.184\* | -0.184\* | -0.186\* |
|  | (0.073) | (0.073) | (0.073) | (0.074) | (0.073) | (0.073) | (0.073) | (0.073) | (0.073) |
| Age (squared) | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
|  | (0.001) | (0.001) | (0.001) | (0.001) | (0.001) | (0.000) | (0.000) | (0.001) | (0.000) |
| Education |  |  |  |  |  |  |  |  |  |
| Primary school | -0.337 | -0.371 | -0.315 | -0.350 | -0.365 | -0.369 | -0.360 | -0.349 | -0.367 |
|  | (0.380) | (0.373) | (0.375) | (0.376) | (0.376) | (0.379) | (0.377) | (0.380) | (0.378) |
| Intermediate secondary | -0.446 | -0.443 | -0.416 | -0.435 | -0.452 | -0.453 | -0.447 | -0.433 | -0.454 |
|  | (0.373) | (0.367) | (0.369) | (0.369) | (0.371) | (0.376) | (0.372) | (0.375) | (0.375) |
| Higher secondary | 0.078 | 0.030 | 0.035 | 0.064 | 0.044 | 0.064 | 0.052 | 0.057 | 0.062 |
|  | (0.280) | (0.273) | (0.280) | (0.276) | (0.277) | (0.281) | (0.280) | (0.281) | (0.280) |
| Intermediate vocational | -0.386 | -0.418 | -0.376 | -0.399 | -0.428 | -0.427 | -0.417 | -0.405 | -0.426 |
|  | (0.384) | (0.375) | (0.377) | (0.379) | (0.379) | (0.382) | (0.379) | (0.383) | (0.381) |
| Higher vocational | -0.233 | -0.283 | -0.258 | -0.247 | -0.265 | -0.259 | -0.264 | -0.261 | -0.250 |
|  | (0.336) | (0.328) | (0.332) | (0.332) | (0.333) | (0.338) | (0.336) | (0.337) | (0.337) |
| Marital status |  |  |  |  |  |  |  |  |  |
| Divorced/Separated | -0.150 | -0.133 | -0.133 | -0.128 | -0.145 | -0.154 | -0.134 | -0.160 | -0.143 |
|  | (0.248) | (0.245) | (0.234) | (0.246) | (0.244) | (0.247) | (0.247) | (0.243) | (0.244) |
| Widow or widower | -0.091 | -0.114 | -0.091 | -0.090 | -0.080 | -0.090 | -0.083 | -0.097 | -0.088 |
|  | (0.375) | (0.377) | (0.376) | (0.375) | (0.379) | (0.380) | (0.381) | (0.379) | (0.380) |
| Never been married | -0.178 | -0.175 | -0.188 | -0.196 | -0.182 | -0.193 | -0.185 | -0.178 | -0.188 |
|  | (0.311) | (0.311) | (0.305) | (0.312) | (0.313) | (0.309) | (0.310) | (0.314) | (0.310) |
| Employment status |  |  |  |  |  |  |  |  |  |
| Unemployed/not payed employment | -0.223 | -0.215 | -0.224 | -0.218 | -0.216 | -0.222 | -0.221 | -0.221 | -0.219 |
|  | (0.156) | (0.156) | (0.156) | (0.157) | (0.156) | (0.156) | (0.156) | (0.156) | (0.156) |
| Student | -0.254 | -0.256 | -0.267 | -0.266 | -0.252 | -0.254 | -0.263 | -0.265 | -0.252 |
|  | (0.192) | (0.193) | (0.194) | (0.192) | (0.192) | (0.191) | (0.192) | (0.192) | (0.191) |
| Pensioner | -0.163 | -0.163 | -0.168 | -0.155 | -0.146 | -0.155 | -0.163 | -0.150 | -0.153 |
|  | (0.188) | (0.187) | (0.187) | (0.187) | (0.187) | (0.187) | (0.187) | (0.187) | (0.187) |
| Intercept | 5.881\* | 5.816\* | 5.962\* | 5.871\* | 5.784\* | 6.064\* | 6.016\* | 5.993\* | 6.101\* |
|  | (2.890) | (2.901) | (2.858) | (2.911) | (2.902) | (2.885) | (2.888) | (2.891) | (2.897) |
|  |  |  |  |  |  |  |  |  |  |
| Panel fixed effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
|  |  |  |  |  |  |  |  |  |  |
| Observations | 2397 | 2397 | 2397 | 2397 | 2397 | 2397 | 2397 | 2397 | 2397 |
| Pseudo R2 | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05* | | | | | | | | | |

**FIGURE 2:**

**Table E10. YouGov data, Figure 2, left panel. Logit & Poisson pseudo-likelihood regression with fixed effects, Mental health variable: Depression**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables | Voted | Political participation | Physical political participation | Non-physical political participation |
|  |  |  |  |  |
| Depression (t-1) | 0.03 | 0.02\* | 0.01 | 0.02\* |
|  | (0.03) | (0.01) | (0.04) | (0.01) |
| Voted in previous GE | 1.52\*\* | -0.01 | 0.33 | -0.04 |
|  | (0.35) | (0.21) | (0.70) | (0.19) |
| Female | -1.42\*\* | -0.10 | -0.58 | -0.06 |
|  | (0.29) | (0.15) | (0.49) | (0.14) |
| Age | -0.00 | 0.01 | 0.02 | 0.01 |
|  | (0.08) | (0.03) | (0.09) | (0.03) |
| Age (squared) | 0.00 | 0.00 | -0.00 | 0.00 |
|  | (0.00) | (0.00) | (0.00) | (0.00) |
| Educationa |  |  |  |  |
|  |  |  |  |  |
| 2 | 0.31 | 0.76 |  | 0.80 |
|  | (0.85) | (0.50) |  | (0.50) |
| 3 | -0.07 | 0.60 | 0.50 | 0.46 |
|  | (0.59) | (0.44) | (1.03) | (0.43) |
| 4 | -0.07 | 1.16\*\* | 0.00 | 1.14\*\* |
|  | (0.59) | (0.40) | (1.03) | (0.39) |
| 5 | 0.86 | 1.44\*\* | 0.93 | 1.37\*\* |
|  | (0.63) | (0.38) | (0.82) | (0.38) |
| 6 | 0.62 | 1.46\*\* | -0.12 | 1.46\*\* |
|  | (0.71) | (0.40) | (0.96) | (0.40) |
| 7 | -0.01 | 1.09\*\* |  | 1.07\* |
|  | (0.68) | (0.42) |  | (0.42) |
| Employment status: |  |  |  |  |
|  |  |  |  |  |
| Unemployed | 0.20 | -0.06 | -1.83 | 0.02 |
|  | (0.43) | (0.21) | (1.11) | (0.20) |
| Student | 1.62 | 0.61 | 0.49 | 0.61 |
|  | (0.96) | (0.46) | (1.07) | (0.43) |
| Pensioner | 0.03 | -0.39 | -0.91 | -0.35 |
|  | (0.54) | (0.24) | (0.55) | (0.25) |
| Marital status: |  |  |  |  |
|  |  |  |  |  |
| Married | 0.09 | 0.29 | 0.08 | 0.31 |
|  | (0.37) | (0.20) | (0.66) | (0.18) |
| Divorced | -0.50 | 0.03 | -0.34 | 0.07 |
|  | (0.50) | (0.27) | (0.84) | (0.27) |
| Widowed | -0.05 | 0.05 | 0.05 | 0.06 |
|  | (0.65) | (0.30) | (0.93) | (0.28) |
|  |  |  |  |  |
| Intercept | -0.71 | -2.35\* | -3.71 | -2.41\* |
|  | (2.18) | (1.00) | (2.82) | (0.96) |
|  |  |  |  |  |
| Observations | 423 | 423 | 384 | 423 |
| Pseudo R2 | 0.15 | 0.06 | 0.07 | 0.06 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05. aFor education categories see Control variable table in Section C* | | | | |

**Table E11. YouGov data, Figure 2, left panel. Logit & Poisson pseudo-likelihood regression with fixed effects, Mental health variable: Anxiety**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables | Voted | Political participation | Physical political participation | Non-physical political participation |
|  |  |  |  |  |
| Anxiety (t-1) | 0.05 | 0.05 | -0.05 | 0.06\* |
|  | (0.07) | (0.03) | (0.09) | (0.03) |
| Voted in previous GE | 1.50\*\* | -0.03 | 0.34 | -0.06 |
|  | (0.35) | (0.21) | (0.71) | (0.19) |
| Female | -1.42\*\* | -0.10 | -0.51 | -0.06 |
|  | (0.29) | (0.15) | (0.46) | (0.14) |
| Age | 0.00 | 0.02 | 0.03 | 0.01 |
|  | (0.07) | (0.03) | (0.10) | (0.03) |
| Age (squared) | 0.00 | 0.00 | -0.00 | 0.00 |
|  | (0.00) | (0.00) | (0.00) | (0.00) |
| Educationa |  |  |  |  |
|  |  |  |  |  |
| 2 | 0.31 | 0.75 |  | 0.78 |
|  | (0.84) | (0.50) |  | (0.50) |
| 3 | -0.09 | 0.59 | 0.40 | 0.46 |
|  | (0.59) | (0.44) | (0.96) | (0.43) |
| 4 | -0.07 | 1.15\*\* | -0.12 | 1.14\*\* |
|  | (0.59) | (0.40) | (0.98) | (0.40) |
| 5 | 0.83 | 1.41\*\* | 0.83 | 1.34\*\* |
|  | (0.64) | (0.38) | (0.77) | (0.38) |
| 6 | 0.60 | 1.44\*\* | -0.20 | 1.45\*\* |
|  | (0.71) | (0.41) | (0.93) | (0.40) |
| 7 | 0.01 | 1.10\*\* |  | 1.08\*\* |
|  | (0.68) | (0.42) |  | (0.42) |
| Employment status: |  |  |  |  |
|  |  |  |  |  |
| Unemployed | 0.24 | -0.01 | -1.76 | 0.08 |
|  | (0.42) | (0.21) | (1.11) | (0.20) |
| Student | 1.61 | 0.63 | 0.61 | 0.63 |
|  | (0.95) | (0.46) | (1.09) | (0.43) |
| Pensioner | 0.02 | -0.38 | -0.90 | -0.34 |
|  | (0.54) | (0.24) | (0.53) | (0.25) |
| Marital status: |  |  |  |  |
|  |  |  |  |  |
| Married | 0.05 | 0.26 | -0.00 | 0.28 |
|  | (0.36) | (0.20) | (0.63) | (0.18) |
| Divorced | -0.54 | 0.01 | -0.38 | 0.05 |
|  | (0.50) | (0.27) | (0.83) | (0.27) |
| Widowed | -0.07 | 0.04 | -0.01 | 0.04 |
|  | (0.64) | (0.30) | (0.92) | (0.27) |
|  |  |  |  |  |
| Intercept | -0.95 | -2.55\* | -3.35 | -2.67\*\* |
|  | (2.32) | (1.03) | (2.73) | (0.99) |
|  |  |  |  |  |
| Observations | 423 | 423 | 384 | 423 |
| Pseudo R2 | 0.14 | 0.06 | 0.07 | 0.06 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05. aFor education categories see Control variable table in Section C* | | | | |

**Table E12. YouGov data, Figure 2, left panel. Logit & Poisson pseudo-likelihood regression with fixed effects, Mental health variable: Stress**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables | Voted | Political participation | Physical political participation | Non-physical political participation |
|  |  |  |  |  |
| Stress (t-1) | 0.04 | 0.04 | 0.07 | 0.04 |
|  | (0.05) | (0.03) | (0.09) | (0.03) |
| Voted in previous GE | 1.57\*\* | 0.00 | 0.40 | -0.03 |
|  | (0.35) | (0.21) | (0.71) | (0.19) |
| Female | -1.36\*\* | -0.10 | -0.58 | -0.05 |
|  | (0.29) | (0.15) | (0.43) | (0.14) |
| Age | -0.01 | 0.01 | 0.00 | 0.01 |
|  | (0.08) | (0.03) | (0.09) | (0.03) |
| Age (squared) | 0.00 | 0.00 | 0.00 | 0.00 |
|  | (0.00) | (0.00) | (0.00) | (0.00) |
| Educationa |  |  |  |  |
|  |  |  |  |  |
| 2 | 0.31 | 0.71 |  | 0.75 |
|  | (0.86) | (0.50) |  | (0.50) |
| 3 | -0.08 | 0.56 | 0.91 | 0.42 |
|  | (0.59) | (0.44) | (1.20) | (0.43) |
| 4 | -0.15 | 1.08\*\* | 0.37 | 1.06\*\* |
|  | (0.59) | (0.40) | (1.21) | (0.39) |
| 5 | 0.72 | 1.36\*\* | 1.31 | 1.28\*\* |
|  | (0.63) | (0.38) | (1.05) | (0.38) |
| 6 | 0.63 | 1.31\*\* | 0.19 | 1.32\*\* |
|  | (0.72) | (0.41) | (1.16) | (0.40) |
| 7 | 0.06 | 1.04\* |  | 1.04\* |
|  | (0.68) | (0.42) |  | (0.42) |
| Employment status: |  |  |  |  |
|  |  |  |  |  |
| Unemployed | 0.26 | -0.09 | -1.93 | 0.00 |
|  | (0.44) | (0.22) | (1.15) | (0.21) |
| Student | 1.48 | 0.66 | 0.34 | 0.68 |
|  | (1.01) | (0.46) | (1.16) | (0.43) |
| Pensioner | 0.02 | -0.37 | -0.83 | -0.33 |
|  | (0.54) | (0.24) | (0.56) | (0.25) |
| Marital status: |  |  |  |  |
|  |  |  |  |  |
| Married | 0.09 | 0.30 | 0.19 | 0.32 |
|  | (0.36) | (0.20) | (0.61) | (0.19) |
| Divorced | -0.51 | 0.03 | -0.31 | 0.07 |
|  | (0.49) | (0.28) | (0.83) | (0.28) |
| Widowed | -0.02 | 0.09 | 0.16 | 0.09 |
|  | (0.65) | (0.30) | (0.93) | (0.28) |
|  |  |  |  |  |
| Intercept | -0.51 | -2.31\* | -4.04 | -2.37\* |
|  | (2.36) | (1.01) | (2.92) | (0.97) |
|  |  |  |  |  |
| Observations | 416 | 416 | 377 | 416 |
| Pseudo R2 | 0.14 | 0.06 | 0.07 | 0.06 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05. aFor education categories see Control variable table in Section C* | | | | |

**Table E13. ACL data, Figure 2, right panel, Logit regression, Dependent variables: Voting and membership in political organization**

|  |  |  |
| --- | --- | --- |
| Variables | Voting | Political organization |
| Depression | -0.028\* | -0.063\* |
|  | (0.013) | (0.028) |
|  |  |  |
| Male | 0.222 | 0.035 |
|  | (0.147) | (0.213) |
| Age | 0.074\*\* | 0.090 |
|  | (0.026) | (0.047) |
| Age (squared) | -0.000 | -0.001 |
|  | (0.000) | (0.000) |
| Marital |  |  |
| Married | -0.274 | -0.371 |
|  | (0.219) | (0.353) |
| Widowed | -0.578\* | -0.582 |
|  | (0.288) | (0.444) |
| Divorced or Separated | -0.359 | -0.057 |
|  | (0.244) | (0.394) |
| Socio-Economic status |  |  |
|  |  |  |
| Lower-Middle SES | 0.845\*\* | 0.863\* |
|  | (0.159) | (0.376) |
| Upper-Middle SES | 1.667\*\* | 1.104\*\* |
|  | (0.186) | (0.389) |
| High SES | 1.986\*\* | 1.722\*\* |
|  | (0.270) | (0.432) |
| Job classification |  |  |
|  |  |  |
| Cler\_Sal | 0.200 | -0.072 |
|  | (0.225) | (0.313) |
| Craf\_kin | -0.699\*\* | 0.186 |
|  | (0.271) | (0.427) |
| Operatv | -0.770\*\* | 0.077 |
|  | (0.279) | (0.543) |
| Laborer | -0.630 | -0.670 |
|  | (0.435) | (0.747) |
| Serv\_Wkr | 0.163 | 0.294 |
|  | (0.243) | (0.412) |
| Retired | -0.275 | 0.431 |
|  | (0.260) | (0.324) |
| Disabled | -0.544 |  |
|  | (0.387) |  |
| Unemploy | -0.199 | 0.304 |
|  | (0.333) | (0.514) |
| KeepHous | -0.299 | -0.216 |
|  | (0.231) | (0.407) |
| Race |  |  |
|  |  |  |
| Black | 0.278\* | 0.108 |
|  | (0.136) | (0.254) |
| American indian | -0.417 | 0.903 |
|  | (0.374) | (0.678) |
| Asian | -2.261\*\* | -0.729 |
|  | (0.535) | (1.056) |
| Hispanic | -0.409 | -1.007 |
|  | (0.539) | (1.011) |
| Intercept | -2.340\*\* | -5.150\*\* |
|  | (0.645) | (1.174) |
| Observations | 2781 | 2702 |
| Pseudo R2 | 0.139 | 0.055 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05* | | |

**FIGURE 4:**

**Table E14. YouGov data, Figure 4, left panel. Logit & Poisson pseudo-likelihood regression with fixed effects, Mental health variable: Diagnosis index**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables | Voted | Political participation | Physical political participation | Non-physical political participation |
|  |  |  |  |  |
| Diagnosis index | 0.02 | 0.17\*\* | 0.17 | 0.17\*\* |
|  | (0.07) | (0.04) | (0.15) | (0.04) |
| Female | -0.67\*\* | -0.01 | -0.54\* | 0.02 |
|  | (0.13) | (0.07) | (0.25) | (0.07) |
| Age | -0.05 | -0.01 | -0.09 | -0.00 |
|  | (0.03) | (0.01) | (0.06) | (0.01) |
| Age (squared) | 0.00\* | 0.00 | 0.00 | 0.00 |
|  | (0.00) | (0.00) | (0.00) | (0.00) |
| Educationa |  |  |  |  |
|  |  |  |  |  |
| 2 | -0.21 | 0.06 |  | 0.16 |
|  | (0.36) | (0.28) |  | (0.28) |
| 3 | 0.18 | 0.28 | -0.67 | 0.34 |
|  | (0.26) | (0.20) | (0.64) | (0.20) |
| 4 | 0.42 | 0.70\*\* | -0.47 | 0.78\*\* |
|  | (0.27) | (0.20) | (0.64) | (0.20) |
| 5 | 1.15\*\* | 1.02\*\* | 0.46 | 1.06\*\* |
|  | (0.27) | (0.19) | (0.60) | (0.19) |
| 6 | 1.16\*\* | 1.13\*\* | -0.01 | 1.20\*\* |
|  | (0.31) | (0.20) | (0.67) | (0.20) |
| 7 | 0.89\*\* | 0.98\*\* | 0.26 | 1.03\*\* |
|  | (0.30) | (0.20) | (0.63) | (0.20) |
| Employment status: |  |  |  |  |
|  |  |  |  |  |
| Unemployed | -0.22 | -0.10 | -0.16 | -0.10 |
|  | (0.19) | (0.11) | (0.52) | (0.11) |
| Student | 0.93\* | 0.06 | -0.35 | 0.09 |
|  | (0.47) | (0.23) | (0.67) | (0.22) |
| Pensioner | 0.03 | -0.08 | 0.03 | -0.08 |
|  | (0.22) | (0.11) | (0.53) | (0.11) |
| Marital status: |  |  |  |  |
|  |  |  |  |  |
| Married | 0.08 | 0.16 | 0.06 | 0.16 |
|  | (0.17) | (0.09) | (0.31) | (0.09) |
| Divorced | -0.06 | 0.07 | 0.30 | 0.06 |
|  | (0.24) | (0.13) | (0.45) | (0.12) |
| Widowed | 0.17 | 0.18 | 0.25 | 0.18 |
|  | (0.32) | (0.18) | (0.84) | (0.18) |
|  |  |  |  |  |
| Intercept | 1.43 | -0.94\* | -0.41 | -1.23\*\* |
|  | (0.75) | (0.40) | (1.45) | (0.41) |
|  |  |  |  |  |
| Observations | 1658 | 1658 | 1601 | 1658 |
| Pseudo R2 | 0.06 | 0.05 | 0.04 | 0.05 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05. aFor education categories see Control variable table in Section C* | | | | |

**Table E15. LISS data, Figure 4, middle panel, Poisson pseudo-likelihood regression with multiple levels of fixed effects, Dependent variables: Voting (logit), Political participation, Physical political participation, Non-physical political participation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables | Political participation | Physical political participation | Non-physical political participation | Voting |
| BSI\_total | 0.319\* | 0.554\* | 0.246 | 0.422 |
|  | (0.149) | (0.255) | (0.155) | (0.631) |
| Age | -0.139\* | -0.181 | -0.181\* | -0.045 |
|  | (0.059) | (0.111) | (0.073) | (0.488) |
| Age (squared) | 0.001\*\* | 0.003\*\* | 0.001 | -0.004 |
|  | (0.000) | (0.001) | (0.001) | (0.002) |
| Education |  |  |  |  |
| Primary school | -0.082 | 0.342 | -0.359 | 14.333 |
|  | (0.257) | (0.226) | (0.375) | (436.270) |
| Intermediate secondary | -0.229 | 0.093 | -0.457 | 14.877 |
|  | (0.305) | (0.698) | (0.369) | (436.270) |
| Higher secondary | -0.062 | -0.276 | 0.044 | 13.451 |
|  | (0.232) | (0.393) | (0.276) | (436.268) |
| Intermediate vocational | -0.047 | 0.633 | -0.412 | 15.755 |
|  | (0.305) | (0.475) | (0.377) | (436.271) |
| Higher vocational | -0.054 | 0.325 | -0.265 | 16.732 |
|  | (0.243) | (0.246) | (0.330) | (436.271) |
| Marital status |  |  |  |  |
|  |  |  |  |  |
| Divorced/Separated | 0.300 | 0.983 | -0.126 | 1.150 |
|  | (0.251) | (0.538) | (0.245) | (1.781) |
| Widow or widower | -0.150 | -0.361 | -0.067 | 0.983 |
|  | (0.374) | (0.926) | (0.376) | (1.363) |
| Never been married | -0.051 | 0.848 | -0.176 | 0.362 |
|  | (0.316) | (0.538) | (0.315) | (0.890) |
| Employment status |  |  |  |  |
| Unemployed/not payed employment | -0.314\* | -0.430 | -0.216 | -0.159 |
|  | (0.151) | (0.220) | (0.156) | (0.529) |
| Student | -0.121 | 0.448 | -0.261 | -0.084 |
|  | (0.208) | (0.485) | (0.193) | (0.955) |
| Pensioner | -0.141 | -0.064 | -0.151 | 0.338 |
|  | (0.173) | (0.254) | (0.187) | (0.655) |
| Intercept | 1.585 | -1.792 | 5.833\* |  |
|  | (2.255) | (4.562) | (2.886) |  |
|  |  |  |  |  |
| Panel fixed effects | Yes | Yes | Yes | Yes |
| Observations | 2646 | 1321 | 2397 | 810 |
| Pseudo R2 | 0.135 | 0.130 | 0.100 | 0.072 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05* | | | | |

**Table E16. SHP data, Figure 4, right panel. Fixed effects logit (voting) and fixed effects panel regression (other dependent variables).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | | |
| Variables | Voting | Boycotting | Striking | Demonstrating |
| Depression/Anxiety | 0.045 | 0.038\*\* | 0.037\*\* | -0.000 |
|  | (0.136) | (0.008) | (0.007) | (0.005) |
| Age | 0.114\*\* | -0.002 | -0.001 | 0.002 |
|  | (0.022) | (0.002) | (0.002) | (0.001) |
| Age (squared) | -0.001\*\* | 0.000 | -0.000 | -0.000 |
|  | (0.000) | (0.000) | (0.000) | (0.000) |
| Education |  |  |  |  |
|  |  |  |  |  |
| Lower secondary | 0.122 | -0.036 | -0.018 | -0.011 |
|  | (0.446) | (0.027) | (0.024) | (0.014) |
| Upper secondary 3A | 0.246 | -0.077\*\* | -0.037 | -0.017 |
|  | (0.487) | (0.025) | (0.022) | (0.013) |
| Upper secondary 3B | -0.060 | -0.074\*\* | -0.057\* | -0.017 |
|  | (0.415) | (0.026) | (0.023) | (0.013) |
| Upper secondary 3C | 0.271 | -0.056 | -0.028 | -0.002 |
|  | (0.510) | (0.031) | (0.028) | (0.016) |
| Post secondary | 0.669 | -0.066\* | -0.046 | -0.001 |
|  | (0.667) | (0.033) | (0.035) | (0.017) |
| First stage tertiary 5A | 0.015 | -0.092\*\* | -0.059\* | -0.010 |
|  | (0.501) | (0.027) | (0.025) | (0.015) |
| First stage tertiary 5B | -0.139 | -0.086\*\* | -0.063\* | -0.020 |
|  | (0.452) | (0.027) | (0.024) | (0.014) |
| Second stage tertiary | 0.044 | -0.079 | -0.055 | -0.024 |
|  | (1.043) | (0.059) | (0.045) | (0.026) |
| Marital status |  |  |  |  |
|  |  |  |  |  |
| Married | 0.354\* | -0.014 | -0.035\*\* | 0.006 |
|  | (0.167) | (0.010) | (0.010) | (0.006) |
| Divorced/Separated | -0.098 | -0.016 | -0.031\* | 0.007 |
|  | (0.228) | (0.016) | (0.015) | (0.010) |
| Widowed | 0.085 | -0.013 | -0.047\* | -0.003 |
|  | (0.327) | (0.020) | (0.019) | (0.016) |
| Employment status |  |  |  |  |
|  |  |  |  |  |
| Unemployed | 0.139 | 0.042\*\* | 0.022 | -0.019\* |
|  | (0.197) | (0.013) | (0.012) | (0.009) |
| Student | 0.097 | 0.010 | 0.006 | -0.012\* |
|  | (0.180) | (0.009) | (0.009) | (0.006) |
| Retired | 0.112 | -0.039\*\* | -0.012 | -0.007 |
|  | (0.142) | (0.009) | (0.008) | (0.005) |
|  |  |  |  |  |
| Intercept |  | 0.483\*\* | 0.506\*\* | 0.403\*\* |
|  |  | (0.048) | (0.047) | (0.029) |
|  |  |  |  |  |
| Fixed panel effects (waves) | Yes | Yes | Yes | Yes |
| Observations | 12299 | 58124 | 58542 | 51995 |
| R2 |  | 0.011 | 0.008 | 0.004 |
| *Notes: Standard errors are in parentheses. \*\* p<.01, \* p<.05* | | | | |

**UKHLS analyses:**

**Table E17. UKHLS data, logit regression, dependent variable: voted in the 2019 General Elections**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | |
| Variables | Anxiety | Depression | Psychosis | Bipolar | Eating disorder | PTSD |
| Mental health condition | 0.275 | 0.211 | 2.161\*\* | 1.215\* | -0.210 | 0.931\* |
|  | (0.201) | (0.198) | (0.782) | (0.615) | (0.564) | (0.449) |
| Male | 0.183\*\* | 0.181\*\* | 0.179\*\* | 0.180\*\* | 0.180\*\* | 0.181\*\* |
|  | (0.049) | (0.049) | (0.049) | (0.049) | (0.049) | (0.049) |
| Age | -0.001 | -0.001 | -0.001 | -0.001 | -0.001 | -0.001 |
|  | (0.009) | (0.009) | (0.009) | (0.009) | (0.009) | (0.009) |
| Age (squared) | 0.000\* | 0.000\* | 0.000\* | 0.000\* | 0.000\* | 0.000\* |
|  | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) | (0.000) |
| Education |  |  |  |  |  |  |
| Upper secondary | 0.335\*\* | 0.336\*\* | 0.336\*\* | 0.335\*\* | 0.337\*\* | 0.337\*\* |
|  | (0.065) | (0.065) | (0.065) | (0.065) | (0.065) | (0.065) |
| Bachelor | 0.828\*\* | 0.829\*\* | 0.828\*\* | 0.825\*\* | 0.829\*\* | 0.828\*\* |
|  | (0.065) | (0.065) | (0.065) | (0.065) | (0.065) | (0.065) |
| Masters | 1.373\*\* | 1.373\*\* | 1.374\*\* | 1.372\*\* | 1.374\*\* | 1.372\*\* |
|  | (0.092) | (0.092) | (0.092) | (0.092) | (0.092) | (0.092) |
| Other | -0.389\*\* | -0.388\*\* | -0.389\*\* | -0.391\*\* | -0.391\*\* | -0.388\*\* |
|  | (0.088) | (0.088) | (0.088) | (0.088) | (0.088) | (0.088) |
| Employment status |  |  |  |  |  |  |
| Paid employment(ft/pt) | 0.013 | 0.014 | 0.016 | 0.014 | 0.014 | 0.015 |
|  | (0.089) | (0.089) | (0.089) | (0.089) | (0.089) | (0.089) |
| Unemployed | -0.297\* | -0.296\* | -0.289\* | -0.292\* | -0.291\* | -0.296\* |
|  | (0.136) | (0.136) | (0.136) | (0.136) | (0.136) | (0.136) |
| Retired | 0.372\*\* | 0.371\*\* | 0.374\*\* | 0.372\*\* | 0.373\*\* | 0.372\*\* |
|  | (0.117) | (0.117) | (0.117) | (0.117) | (0.117) | (0.117) |
| Maternity leave / Family care | 0.036 | 0.036 | 0.037 | 0.035 | 0.035 | 0.035 |
|  | (0.147) | (0.147) | (0.147) | (0.147) | (0.147) | (0.147) |
| Full-time student | 0.868\*\* | 0.869\*\* | 0.870\*\* | 0.869\*\* | 0.868\*\* | 0.870\*\* |
|  | (0.163) | (0.164) | (0.164) | (0.164) | (0.164) | (0.164) |
| LT sick or disabled | -0.248 | -0.244 | -0.241 | -0.246 | -0.228 | -0.244 |
|  | (0.142) | (0.142) | (0.142) | (0.142) | (0.142) | (0.142) |
| Other | -0.345 | -0.345 | -0.347 | -0.345 | -0.345 | -0.344 |
|  | (0.197) | (0.197) | (0.197) | (0.197) | (0.197) | (0.197) |
| Marital status |  |  |  |  |  |  |
| Married | 0.061 | 0.060 | 0.060 | 0.059 | 0.059 | 0.060 |
|  | (0.069) | (0.069) | (0.069) | (0.069) | (0.069) | (0.069) |
| Separated/divorced | -0.228\* | -0.229\* | -0.227\* | -0.229\* | -0.229\* | -0.228\* |
|  | (0.093) | (0.093) | (0.093) | (0.093) | (0.093) | (0.093) |
| Widowed | -0.445\*\* | -0.443\*\* | -0.445\*\* | -0.445\*\* | -0.443\*\* | -0.442\*\* |
|  | (0.126) | (0.126) | (0.126) | (0.126) | (0.126) | (0.126) |
| Intercept | 0.196 | 0.198 | 0.201 | 0.204 | 0.204 | 0.199 |
|  | (0.226) | (0.226) | (0.226) | (0.226) | (0.226) | (0.226) |
| Observations | 20257 | 20257 | 20257 | 20257 | 20257 | 20257 |
| Pseudo R2 | 0.070 | 0.070 | 0.070 | 0.070 | 0.070 | 0.070 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05* | | | | | | |

**Table E18. UKHLS data. Logit regression, dependent variable: voted in the 2019 General Elections, Mental health variable: Diagnosis index**

|  |  |
| --- | --- |
|  | (1) |
| Variables | voted in the 2019 General Elections |
| Mental health diagnosis index | 0.158 |
|  | (0.086) |
|  |  |
| Male | 0.182\*\* |
|  | (0.049) |
| Age | -0.001 |
|  | (0.009) |
| Age (squared) | 0.000\* |
|  | (0.000) |
| Education |  |
| Upper secondary | 0.335\*\* |
|  | (0.065) |
| Bachelor | 0.828\*\* |
|  | (0.065) |
| Masters | 1.372\*\* |
|  | (0.092) |
| Other | -0.387\*\* |
|  | (0.088) |
| Employment status |  |
|  |  |
| Paid employment(ft/pt) | 0.014 |
|  | (0.089) |
| Unemployed | -0.300\* |
|  | (0.136) |
| Retired | 0.371\*\* |
|  | (0.117) |
| On maternity leave / Family care or home | 0.037 |
|  | (0.147) |
| Full-time student | 0.870\*\* |
|  | (0.164) |
| LT sick or disabled | -0.258 |
|  | (0.142) |
| Other | -0.344 |
|  | (0.197) |
| Marital status |  |
|  |  |
| Married | 0.061 |
|  | (0.069) |
| Separated/divorced | -0.228\* |
|  | (0.093) |
| Widowed | -0.444\*\* |
|  | (0.126) |
| Intercept | 0.193 |
|  | (0.226) |
| Observations | 20257 |
| Pseudo R2 | 0.070 |
| *Notes: Robust standard errors are in parentheses. \*\* p<.01, \* p<.05* | |

**Section F: Correlation of Mental Health Variables**

**YouGov Survey**

|  |  |  |  |
| --- | --- | --- | --- |
| Variables | (1) | (2) | (3) |
| (1) CESD-9 | 1.000 |
| (2) STAI-6 | 0.759 | 1.000 |
| (3) PSS-4 | 0.779 | 0.701 | 1.000 |
|  | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| (1) schizophrenia | 1.000 |
| (2) bipolar | -0.003 | 1.000 |
| (3) depression | -0.014 | 0.115 | 1.000 |
| (4) anxiety | -0.013 | 0.087 | 0.505 | 1.000 |
| (5) ocd | -0.004 | 0.336 | 0.092 | 0.220 | 1.000 |
| (6) ptsd | -0.007 | 0.135 | 0.330 | 0.266 | 0.012 | 1.000 |
| (7) eating | -0.005 | 0.053 | 0.202 | 0.228 | 0.140 | 0.125 | 1.000 |
| (8) personality | -0.003 | 0.245 | 0.140 | 0.073 | -0.011 | 0.158 | 0.143 | 1.000 |
|  | | | | | | | | |

**LISS Survey**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| (1) BSI\_somatic | 1.000 |
| (2) BSI\_cognitive | 0.439 | 1.000 |
| (3) BSI\_interpersonal | 0.361 | 0.546 | 1.000 |
| (4) BSI\_depression | 0.442 | 0.569 | 0.573 | 1.000 |
| (5) BSI\_fear | 0.469 | 0.576 | 0.552 | 0.558 | 1.000 |
| (6) BSI\_hostility | 0.331 | 0.464 | 0.511 | 0.447 | 0.504 | 1.000 |
| (7) BSI\_phobic | 0.366 | 0.491 | 0.564 | 0.495 | 0.533 | 0.342 | 1.000 |
| (8) BSI\_paranoid | 0.349 | 0.497 | 0.607 | 0.542 | 0.499 | 0.502 | 0.422 | 1.000 |
| (9) BSI\_psychoticism | 0.340 | 0.541 | 0.578 | 0.623 | 0.534 | 0.442 | 0.512 | 0.543 | 1.000 |
|  | | | | | | | | | |

**UKHLS Survey**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variables | (1) | (2) | (3) | (4) | (5) | (6) |
| (1) anxiety | 1.000 |
| (2) depression | 0.704 | 1.000 |
| (3) psychosis | 0.144 | 0.130 | 1.000 |
| (4) bipolar | 0.180 | 0.162 | 0.294 | 1.000 |
| (5) eating | 0.202 | 0.192 | 0.196 | 0.099 | 1.000 |
| (6) ptsd | 0.319 | 0.307 | 0.176 | 0.111 | 0.239 | 1.000 |
|  | | | | | | |