

Table S1: Table of measures

Variable	Source	Description/Example	Original scoring	Recoding for analysis
Age	Office for National Statistics	N/A	1 = Under 16 years 2 = 16-17 years 3 = 18-24 years 4 = 25-34 years 5 = 35-44 years 6 = 45-54 years 7 = 55-64 years 8 = 65-74 years 9 = 75+ years	1 = 18-24 years 2 = 25-44 years 3 = 45-64 years 4 = 65+ years
Sex	Office for National Statistics	N/A	1 = Male 2 = Female 3 = Other	1 = Male 2 = Female
Ethnicity	Office for National Statistics	N/A	1 = English / Welsh / Scottish / Northern Irish / British 2 = Irish 3 = Gypsy or Irish Traveller 4 = Any other White background, <i>please specify</i> 5 = White and Black Caribbean 6 = White and Black African 7 = White and Asian 8 = Any other Mixed / Multiple ethnic background, <i>please specify</i> 9 = Indian 10 = Pakistani 11 = Bangladeshi 12 = Chinese 13 = Any other Asian background, <i>please specify</i> 14 = African	0 = White 1 = BME

			<p>15 = Caribbean  16 = Any other Black / African / Caribbean background, <i>please specify</i>  17 = Arab  95 = Any other group, please specify</p>	
Non-employment	Office for National Statistics	N/A	<p>1 = Going to school or college full time (including on vacation)  2 = In paid employment or self employed (or temporarily away)  3 = On a Government scheme for employment training  4 = Doing unpaid work for a business that you own, or that a relative owns  5 = Waiting to take up paid work already obtained  6 = Looking for paid work or a Government training scheme  7 = Intending to look for work but prevented by temporary sickness or injury  8 = Permanently unable to work because of long-term sickness or disability  9 = Retired from paid work  10 = Looking after the home or family  95 = Doing something else, specify</p>	<p>0 = employed  1 = not employed</p>
Education	Office for National Statistics	<p>Do you have any educational qualifications for which you received a certificate?</p> <p>Do you have any professional, vocational or other work-related qualifications for which you received a certificate?</p>	<p>1 = Yes, 2 = No</p> <p>1 = Yes, 2 = No</p> <p>1 = At degree level or above, 2 = Another kind of qualification</p>	<p>1 = No qualifications  2 = Professional or vocational qualification  3 = Degree or higher</p>

		What is your highest qualification?		
Housing quality	English Housing Survey	<p>During the winter months, does condensation form on the windows or walls of any room in your home apart from the bathrooms or toilets?</p> <p>During the winter months, are there patches of mould or fungus in any room in your home, apart from bathrooms or toilets?</p> <p>During the cold winter weather, can you normally keep comfortably warm in your living room?</p>	<p>1 = Yes, 2 = No, 3 = Spontaneous: don't know</p> <p>1 = Yes, 2 = No, 3 = Spontaneous: don't know</p> <p>1 = Yes, 2 = No, 3 = Spontaneous: don't know</p>	<p>0 = No problems</p> <p>1 = One problem</p> <p>2 = Two problems</p> <p>3 = Problems with all three issues</p>
Financial struggle	Wealth and Assets Survey	How well would you say your household is managing financially these days?	<p>1 = Doing well</p> <p>2 = Getting by</p> <p>3 = Struggling</p>	N/A
Financial Situation	Wealth and Assets Survey	Would you say your household is better off or worse off financially than you were a year ago?	<p>1 = Better off</p> <p>2 = About the same</p> <p>3 = Worse off</p> <p>4 = Don't know</p>	<p>1 = Better off</p> <p>2 = About the same</p> <p>3 = Worse off</p>
Index of Multiple Deprivation (IMD)	Office of National Statistics	Measure of deprivation at level of Lower Level Super Output Area (LSOA) across seven domains: Income, Employment, Education, Health and Disability,	N/A	N/A

		Crime, Housing, and Living Environment.		
Physical Health	EuroQual Five Dimensional Scale (EQ-5D)	Standardised instrument that assesses problems with mobility, self-care, engagement in usual activities, and pain.	1 = No problems 2 = Some Problems/Moderate problems 3 = Extreme problems/Unable	0 = No problems 1 = Some/Severe problems
Multimorbidity	Psychiatric Morbidity Survey	Have you ever had any of [these health conditions] over the past 12 months?	Do you have any physical or mental health conditions or illnesses lasting or expected to last for 12 months or more? 1 = Yes 2 = No 3 = Don't know 4 = Refused  1 = Cancer 2 = Diabetes 3 = Epilepsy/fits 4 = Migraine or other frequent headaches 5 = Dementia or Alzheimer's disease 6 = Any mental health issue 7 = Cataracts / eyesight problems (even if corrected with glasses or contacts) 8 = Ear/hearing problems (even if corrected with a hearing aid) 9 = Stroke 10 = Heart attack/angina 11 = High blood pressure 12 = Bronchitis/emphysema 13 = Asthma 14 = Allergies 15 = Stomach ulcer or other digestive problems 16 = Liver problems	0 = No conditions 1 = Only mental health condition/s 2 = Only physical health condition/s 3 = Physical and mental health condition/s

			17 = Bowel/colon problems 18 = Bladder problems/incontinences 19 = Arthritis 20 = Bone, back joint or muscle problems 21 = Gout 22 = Skin problems 95 = Other, please specify 96 = None of these	
Depression	Patient Health Questionnaire (PHQ-9)	Assesses how often participants had been bothered by pro problems such as "Feeling down, depressed, or hopeless" over the past two weeks.	1 = Not at all 2 = Several days 3 = More than half the days 4 = Nearly every day	N/A
Anxiety	Generalised Anxiety Disorder Questionnaire (GAD-7)	Assesses frequency of events such as "Being so restless that it is hard to sit still" over the past two weeks.	1 = Not at all 2 = Several days 3 = More than half the days 4 = Nearly every day	N/A
Paranoia	Five-item Persecution and Deservedness Scale (PaDS-5)	Assesses the extent to which people are suspicious of others' intentions. Participants rate their level of agreement with statements such as "I'm often suspicious of other people's intentions towards me."	1 = Strongly disagree 2 = Disagree 3 = Neither agree or disagree 4 = Agree 5 = Strongly agree	N/A
Auditory Verbal Hallucinations	Launay-Slade Hallucination Scale (single item)	"I have been troubled by hearing voices in my head"	1 = Strongly disagree 2 = Disagree 3 = Neither agree nor disagree 4 = Agree 5 = Strongly agree	

Alcohol	N/A	Participants indicated if they ever drank alcohol and if so how many of the following drinks they had consumed over the past seven days: pints of beer (low, normal and strong), pints of cider, bottles of alcopops, glasses of spirits, glasses of wine (small and large), glasses of fortified wine. These numbers were converted to alcoholic units and then people were categorized into four levels of alcohol consumption based on the recommended usage of less than 14 units per week (Department of Health, 2016)	1 = none, moderate (<14 units/week), 2 = heavy (14-28 units/week), 3 = very heavy (>28 units/week).	N/A
Social Support	Community Life Survey	Assesses the extent to which participants agree they receive <i>practical support</i> ("If I needed help, there are people who would be there for me") and <i>social contact</i> (If I wanted company or to socialise, there are people I can call on")	1 = Definitely agree 2 = Tend to agree 3 = Tend to disagree 4 = Definitely disagree 5 = Don't know	0 = Disagree 1 = Agree
Healthcare Access	N/A	The <i>proximity to A&amp;E departments</i> and <i>proximity</i>	N/A	N/A

		<p><i>to GP practices</i> was estimated using the Routino open source tool (<a href="http://Routino.org.uk">Routino.org.uk</a>) to calculate the shortest road distance in kilometres between the centre of each postcode and these health facilities. The average distance for all postcodes within each Lower layer Super Output Area (LSOA) level was then estimated and linked to survey responses based on the LSOA in which the respondent lived.</p>		
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Table S2. Descriptive statistics and bivariate correlations between mental health and healthcare variables.

Variable	<i>M</i>	<i>SD</i>	1	2	3	4	5	6
1. Depression (1-4 scale)	1.52	.65	-	.79***	.50***	.33***	.15***	.15***
2. Anxiety (0-3 scale)	1.50	.71	-	-	.55***	.35***	.14***	.15***
3. Paranoia (1-5 scale)	1.95	.87	-	-	-	.39***	.09***	.10***
4. AVH (1-5 scale)	1.29	.66	-	-	-	-	.07***	.05***
5. A&E Attendance	.69	2.74	-	-	-	-	-	.15***
6. GP Attendance	5.50	15.05	-	-	-	-	-	-

\*\*\*  $p < .001$  AVH: Auditory Verbal Hallucinations