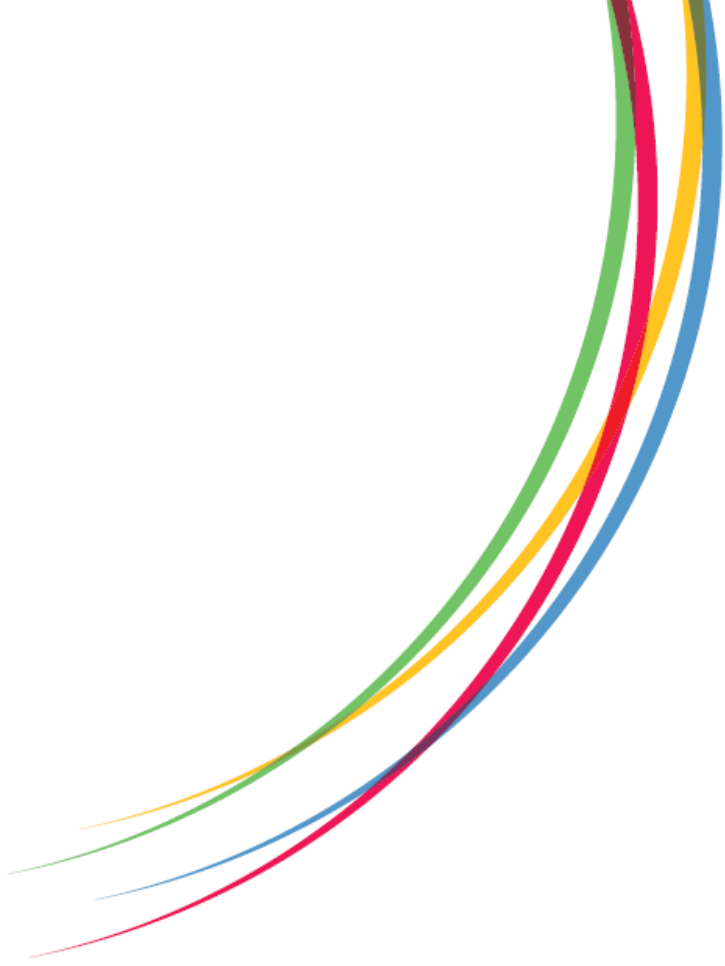




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Non-response bias risks in sample sub-groups in Understanding Society: the UK Household Longitudinal Study

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Non-technical summary

If non-respondents and respondents differ, survey non-response can cause survey estimates to deviate from population values (non-response biases), leading to invalid inference. Minimising biases requires information on their characteristics and causes. However, little is known about this topic in ethnic minority sample subgroups and subgroups including long term survey respondents, which are both of importance to substantive researchers. We address these gaps in our knowledge by comparing bias and their causes among respondents from these subgroups to those in general population datasets from Understanding Society – the UK Household Longitudinal Study (UKHLS). Estimating biases is difficult due to population values not being available, so we instead utilise representativeness indicators to quantify bias risks and their causes. We find that data on both subgroups exhibits non-negligible bias risks. We also find differences between general population datasets and the two subgroups in the characteristics of under-represented individuals in datasets (i.e. the causes of bias risks), with several ethnicities more under-represented in ethnic minority datasets, and those with below degree levels of education under-represented among long term survey respondents. We then discuss the implications of our findings for survey design.

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Abstract:

Survey non-response biases cause invalid inference. Minimising biases requires information on their causes, but those in ethnic minority and long term respondent subgroups are comparatively unstudied. We investigate bias risks and their causes (estimating biases is difficult as population values do not exist) in these subgroups in Understanding Society – the UK Household Longitudinal Study (UKHLS). We find that both exhibit bias risks, and that, unlike in overall survey datasets, several ethnicities are under-represented in minority samples, and those with below degree levels of education in long term respondent samples. We then discuss the implications of our findings for survey design.

Keywords: survey dataset quality, non-response biases, dataset representativeness, ethnic minority subgroups, long term survey respondents.

JEL classification: C81, C83

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1. Introduction

To minimise survey estimate non-response biases, information on their characteristics and causes in terms of differences between responding and non-responding sample members is required (Groves 2001). A substantial literature exists investigating such questions (see Groves 2006 for a review). However, despite this, little is known about biases and their causes in survey sample sub-groups. The quality of data from these subgroups can be an important component of overall survey quality (Benzeval et al. 2020). Hence, biases and their causes within them may need to be considered separately from those in overall datasets, to inform quality reports, and also, if necessary, bias minimisation efforts. Investigating these questions in two types of subgroup, ethnic minorities and long term survey respondents, is the aim of this paper.

We address these questions using data from Understanding Society: the UK Household Longitudinal Study (UKHLS), a long running (since 2009) survey of the UK population that includes several ethnic minority boost samples and also sample members from the British Household Panel Survey (BHPS), which began in 1991. We use these samples to investigate biases and their causes in subgroups compared to general population samples, which mirror the overall datasets. Quantifying actual biases is difficult (see section 1.2), so we undertake this indirectly by estimating bias risks using representativeness indicators (see Schouten et al 2012 and sections 1.2 & 3.4). We consider the following two research questions

RQ1: Do bias risks and their causes among ethnic minorities differ from those in general population samples?

RQ2: Do bias risks and their causes among long term survey respondents differ from those in general population samples?

1.1. Motivation: Non-response biases and their causes in survey sample subgroups

If survey respondents differ from non-respondents, survey estimates may deviate from study population values (non-response biases), causing invalid inference. Hence, with response rates declining over time (de Leeuw & de Heer 2002; Luiten et al. 2020), considerable efforts are made to minimise biases. Measures may be undertaken before or during data collection to increase response rates and improve resemblance to populations (representativeness) by increasing response in under-represented subgroups, for instance by re-contacting non-respondents or offering multiple interview modes (Groves & Heeringa 2006; Wagner 2008). They may also be undertaken post collection to reduce remaining biases, such as producing non-response weights (e.g. Valliant et al. 2013). As bias prevention measure success can increase bias adjustment effectiveness (Lundquist & Sarndal 2013; Sarndal & Lundquist 2014a, b; Schouten et al. 2016), of the two the former should perhaps be considered more important.

To minimise non-response biases, their characteristics and causes in terms of differences between respondents and non-respondents must be understood. This is a key task for survey designers. However, despite the substantial literature that has arisen due to this requirement, there are still gaps in our knowledge. For example, there is limited work on biases within sample subgroups. Such subgroups can be of especial interest to substantive researchers. This can be because comparatively little is known about them, as for example with ethnic minorities and young and older adults (e.g. Kappelhoff 2015; Cantrell et al. 2017; Smith 2021). It can also be because of the information collected, as for example with long term respondents given that data on individuals over extended time periods is an invaluable resource (e.g. Lynn 2009). In these scenarios, the feasibility of analyses of the subgroups alone should be considered a dimension of dataset quality (see Benzeval et al. 2020), and biases

separately evaluated to inform discussions of the topic. In addition, if biases within subgroups differ from those in overall datasets, separate evaluations will best inform attempts to minimise them.

1.2. Previous research relating to research questions

Concerning RQ1, some work exists on non-response biases and their causes in ethnic minority subgroups. This shows that differences often exist compared to in general populations (i.e. overall survey datasets). Response rates tend to be lower, inflating the effect of being a minority has on dataset size. For example, in the 2006 Danish Enrolment in Education and Jobs among Immigrants survey they are 20 percentage points lower for Iranian, Pakistani and Turkish groups than for native Danes (Deding et al. 2013; see Feskens et al. 2007; Morales & Ros 2013; Ahlmark et al. 2015; Cai & Baker 2021 for similar findings).

Biases can also be larger for minorities. For example, Cai & Baker (2021) show that in the US Current Population Survey (CPS) unemployment is more understated for black sample members. As in the CPS, such findings can be caused by there being more subgroup members with characteristics associated with low response, such as being young adults, of low socio-economic status, single parents, or with high residential mobility (see, for example, Lipps et al. 2013; Smith 2013 for similar findings). Patterns though, can depend on ethnicity (Kappelhof 2017), and also vary between countries due to differences in minority subgroup ethnic composition (Kappelhof 2015). Hence, more work is needed.

Concerning RQ2, to our knowledge no research explicitly considering biases and their causes among long term survey respondents exists. However, some inferences can be made.

By definition, response rates should be higher among such individuals. In addition, work on the UKHLS shows that long term respondents tend to be older, more educated, from smaller households, and less likely to be residentially mobile (James 2024; see also Lugtig 2014; Gerry & Papadopoulos 2015 for comparable findings). These differences are likely to be associated with differences in answers to survey questions, and hence lead to biases.

1.3. Quantifying non-response biases and their causes

Quantifying biases is difficult because population benchmarks rarely exist (e.g. Hand 2018). Hence, indirect bias risk measures are often used. In early work, the response rate was used as such a measure (Olson 2006; Kreuter 2013). However, empirical work indicates only a weak correlation between response rates and biases (Groves 2006; Groves & Peytcheva 2009). Given this, methodologists instead recommend quantifying variation in response rates across sample subgroups defined by characteristics correlated with survey variables (e.g. Groves & Heeringa 2006; Peytchev et al. 2010). In this vein, one popular set of measures are representativeness indicators (see Schouten et al. 2012 and section 3.4). These quantify variation in individual response propensities estimated using auxiliary covariates available for all sample members. If such covariates are correlated with survey variables, low propensity variation (high representativeness) implies low bias risk. Overall indicators quantify dataset representativeness. Partial variants also exist that quantify propensity variation associated with auxiliary covariates and their categories i.e. the causes of biases. Deviations from representativeness can be tested for statistical significance, and indicators are comparable. Supporting the use of these indicators, Schouten et al. (2016) found that high representativeness reduces biases, though Nishimura et al. (2017) note that the extent

depends on the strength of auxiliary covariate – survey variable correlations. They have now been used in research addressing a range of survey dataset quality questions (see references in Cornesse & Bosnjak 2018; see also Moore et al. 2018, 2021 and Maslovskaya & Lugtig 2022 for more recent work).

2. Data: Understanding Society – the UK Household Longitudinal Study (UKHLS)

The UKHLS began in 2009, with a first wave target sample size of 40,000 HHs. Individuals in sample HHs are interviewed annually, with each wave collected over two years. Together with its predecessor, the British Household Panel Survey (BHPS), which began in 1991, the UKHLS is a key source of information on (changes in) UK society. As of December 2024, 14 waves of data have been released. For full details of the survey, see Institute for Social and Economic Research (2024) and the website: <https://www.understandingsociety.ac.uk/>.

The UKHLS has a multi-stage sampling design with some HH clustering and stratification (Northern Irish and Ethnic Minority Boost Sample (EMBS: see also below) members are not clustered). Wave 1 included the General Population sample (GPS), a probability sample of UK HHs, and the EMBS, which sampled more than 1,000 individuals of each of the five largest minority groups (Indian, Pakistani, Bangladeshi, Caribbean and African). At wave 2, the remaining ca. 23,000 BHPS sample members joined the survey. At wave 6, the Immigrant and Ethnic Minority Boost Sample (IEMBS) was included to increase the sample sizes of the minority groups in the EMBS and to sample other recent immigrants. At wave 14, a second GPS sample was included, again to increase sample size. Given our analysis approach (see section 3.1), this latter sample is not considered in this paper.

At each wave, interviews are sought from all original sample members (OSMs) aged 10 or over even if they move from their original HH (note that children born to OSM mothers become OSMs). They are also sought from individuals aged 10 or over in HHs in which OSMs reside. A HH questionnaire and grid enumerating all HH members is presented for completion to the first to start the survey. Adult questionnaires are then presented to all HH members aged 16 or over, and youth questionnaires to 10 to 15 year olds (who are not studied in this paper). At wave 1, interviews were face-to-face using Computer Assisted Personal Interviewing (CAPI), with similar follow-up of non-respondents. At wave 2, some Computer Assisted Telephone Interviewing (CATI) was introduced. At wave 7 (2015) web data collection was introduced, with some non-responding wave 6 HHs issued to web with CAPI follow-up. At wave 8, 40% of the sample (those predicted to be most likely to respond by web) was issued to web with CAPI follow up. Subsequently, successively more individuals have been issued to this collection method, though during the 2020-22 COVID-19 pandemic (which affected waves 11, 12 and 13) most were issued to web with CATI follow up.

Note that a range of adjustments to survey design features to improve datasets have been studied / implemented in the UKHLS, though none have been subgroup-specific (see Cabrera-Alvarez et al. 2024 for a list of references). Hence, our analyses quantify risks of non-response biases and their causes after such adjustments. This may cause issues with generalisability of analyses findings to other surveys (see also Summary and Conclusions).

3. Analysis approach and methods

3.1. Analysis approach

Our approach of comparing UKHLS samples avoids individuals appearing in both datasets, which would occur if we compared samples to the overall dataset. To address RQ1, we compare EMBS and IEMBS samples to GPS samples. The EMBS and GPS both enter the survey at wave 1, avoiding issues arising from the behaviour of individuals differing due to length of time in the survey. The IEMBS comparison does suffer from this issue as the IEMBS only enters the survey at wave 6: we include it because the IEMBS samples a slightly different (sub-) population to the EMBS (see section 2.1). White British individuals are included in the EMBS and IEMBS, and ethnic minorities in the GPS. We include these individuals, which are 5-10% of the former samples and 10-12% of the latter, in the analysis samples because it enables us to examine the impact of different ethnicities on bias risks whilst computing representativeness indicators that are comparable between samples (see section 3.4). In addition, it means the GPS samples should reflect the overall datasets, which is of value since our research questions concern differences between sample subgroups and the latter (see section 1). Note that we also test this assumption by comparing GPS and overall samples. We examine both unweighted overall samples and those weighted using the non-response weights released with datasets, with the latter enabling bias risks compared to the UK population to be considered.

To address RQ2, we compare BHPS and GPS samples. To quantify long term survey respondents, we include only OSMs in the BHPS samples. This includes OSM children born after 1991: these will not have completed the adult questionnaire until they reached 16, but there will be information on them for the period prior to this from the HH grid, their parents

and the youth questionnaire. It also includes individuals who did not respond to all waves: this is because to maximise use of information they can be incorporated into substantive analyses by using methods for incomplete panel data (see, for example, Wooldridge 2010, section 17.7).

3.2. Analysis samples

As well as previous wave respondents, the issued sample at a wave includes all non-respondents in HHs from which a previous wave response was received who have not died, emigrated or refused to participate, and all members of HHs from which no responses were received at the previous wave or the wave prior to that (HHs are dropped after no responses are received for two waves). In addition, individuals who join sample HHs at waves after initial wave are included in the survey. This causes difficulties for sample construction because information from a single wave does not exist for all issued sample members at a wave. Given this, we construct analysis samples consisting of all respondents to wave $w-1$ (the wave previous to the considered wave, which we term wave w), and quantify bias risks among those who respond to wave w using wave $w-1$ information. We define a respondent as someone responding themselves, not those who respond via a proxy: this is because some questions are not presented to proxies. Note that this approach means that our analysis samples exclude issued sample members that did not respond at wave $w-1$ and HH joiners at wave w : the latter join the analysis samples at wave $w+1$. It also means that we can only consider waves 2 to 14 in our analyses, and that samples entering the survey after wave 1 are only considered from the wave after the one they enter, i.e. the BHPS from wave 3 on, and the IEMBS from wave 7 on.

3.3. Covariates used in analyses

We use 8 covariates in analyses: Sex (male; female), Age (16-29; 30-39; 40-49; 50-59; 60-69; 70+); Activity last week (employed; unemployed; student; retired; ill / impaired; other); Qualifications (degree; below degree; non-academic / none; not recorded (NR)), Ethnicity (white British; mixed; Indian; Pakistani; Bangladeshi; Caribbean; African; Other), GHQ-12 (0-3; 4-6; 7-9; 10-12; NR), HH tenure (owner occupied; mortgage; rented / other), and HH structure (single adult, no kids; single adult, kids; couple, no kids; couple, kids; other). The first six are from the wave *w-1* adult questionnaire, which as our analysis samples include only wave *w-1* respondents exist for wave *w* respondents and non-respondents. HH Tenure and HH Structure are from the HH questionnaire, so (with the same availability as the covariates from the adult questionnaire) are the same for all members of a HH. All except GHQ-12 have been shown in the UKHLS to affect response propensities and survey answers (e.g. Lynn et al. 2012, 2023; Durrant et al. 2017; Borkowska 2019; Moore et al. submitted). GHQ-12 is the score on a 12-item questionnaire that screens for general non-psychotic mental health problems, with zero indicating the fewest problems and 12 the most (Goldberg & Williams 1988). It has not been used in research on the UKHLS before, but poor mental health can be correlated with unit and item non-response and also with survey answers (see Wright et al. 2023 for a recent review).

All covariates suffer from item non-response. Numbers are mostly small (<3%), so we exclude individuals with missing values for any one of 6 of the covariates from our analysis samples. The exceptions are Qualifications and GHQ-12. With Qualifications, this is because until wave 6 the question was not asked of non-UK educated individuals, and even after some may wave struggled to translate their qualifications into the UK education system based

options presented in the questionnaire. With GHQ-12, it is because of more missing values (10-15%). Note though, that with CAPI and CATI the question is part of a separate self-completion element of the questionnaire, so missingness may not be entirely related to the question itself. We report numbers of individuals excluded at each wave in the Appendix, Table 1.

3.4. Methods to evaluate representativeness and non-response bias risks

To quantify the representativeness and hence bias risks of respondents in our analysis samples, we use representativeness indicators (R-indicators and Coefficients of Variation of response propensities (CVs): see Schouten et al. 2012). These indicators quantify variation in response propensities that are estimated by regression using auxiliary covariates available for all sample members. If covariates and survey variables are correlated, low propensity variation (representativeness) implies low bias risk. Partial variants quantify propensity variation associated with auxiliary covariates and their categories: the causes of bias risks. Unconditional forms quantify deviations from representativeness, conditional forms deviations from conditional representativeness (a random sample after stratifying by the other covariates). To quantify dataset representativeness, we calculate the overall CV, for sample size n and auxiliary covariate set $\mathbf{x}$, producing the propensity vector $p_{\mathbf{x}}$,

$$\widehat{CV}(p_{\mathbf{x}}) = \frac{\sqrt{\frac{1}{n-1} \sum_{i=1}^n (\hat{p}_i - \hat{p})^2}}{\hat{p}}, \quad (1)$$

where $\hat{p}_i$ is the response propensity of subject i and $\hat{p}$ average response propensity. The numerator term is the response propensity standard deviation, SD . Weights can be applied to sample members. The less propensities differ between sample members, the smaller the

overall CV and the greater dataset representativeness. Indicators are comparable given use of the same response propensity models. The overall R-indicator, $\hat{R}(p_x) = 1 - 2SD$, is the SD scaled to between 0 and 1 (larger values imply greater representativeness). However, Schouten et al. (2009; see also Moore et al. 2018) advise using CVs when response rates differ because dividing SD by $\hat{p}$ means they are less likely to falsely suggest high representativeness at very low or very high rates due to low propensity variation. In addition, overall CVs enable an upper bound on the likely biases arising from a dataset to be estimated: they predict the maximal absolute survey variable standardised bias (Schouten et al. 2011). As sample response rates differ (see section 4), we report CVs here. Partial unconditional and conditional CV ($CV_{u,s}$ and $CV_{c,s}$) computation, sampling bias adjustments and CV standard errors (which can be converted into 95% confidence intervals for statistical inference) are described in the Appendix.

We quantify bias risks by computing sample bias adjusted overall CVs and their 95% CIs. We fit the auxiliary covariates listed in section 3.3 as main effects in response propensity models. To quantify bias risk causes, we compute auxiliary covariate category partial unconditional CVs ($CV_{u,s}$) and their 95% CIs. We also examine whether categories identified as impacting on risks reflect separate sample subgroups rather than (a smaller set of) subgroups defined by combinations of characteristics by computing category conditional CVs ($CV_{c,s}$) and their 95% CIs: a statistically significant CV_c (one with 95% CIs that do not overlap zero) reflects a subgroup defined by the characteristic alone. Identifying whether or not categories reflect such subgroups is important for maximising the efficiency of subsequent interventions to reduce bias risks. Depending on categories involved, a non-significant CV_c may imply several whose targeting would involve the same individuals (for example, most

students are aged 16-29), or that targeting only a subgroup of the category is necessary (for example, males aged 16-29). We use the R code of de Heij et al. (2015) to compute indicators.

4. Results

4.1. RQ1: Do bias risks and their causes among ethnic minorities differ from those in general population samples?

4.1.1. GPS samples

We first consider the GPS samples, the general population (i.e. overall dataset) benchmarks against which subgroups are compared to address our RQs. We report response rates in column (i) of Table 1. All are above 80% except at wave two, increase to 89% by wave 5, decrease slightly at wave 6, increase slightly again at wave 7, then after are similar. We report overall CVs quantifying respondent representativeness in Fig. 1 (see Appendix Table 2 for tabulated values and 95% CIs). All are statistically significant (i.e. 95% CIs do not overlap zero), implying non-representativeness. They decrease from waves 2 to 4, then after are similar. Hence, despite high response rates, non-response bias risks exist among respondents.

Concerning CV_{us} quantifying category representativeness and impacts on bias risks, an issue is that many categories with small impacts are significant due to small 95% CIs (95% CIs that do not overlap zero indicate significance). This occurs with all samples studied. We hence restrict reporting here to those for waves 3 (the second wave included for the overall datasets, the GPS and the EMBS, and the first for the BHPS sample), 7 (a mid-point wave for the fore-mentioned datasets etc. and the first IEMBS wave included) and 14 (the latest wave released: note this means that only two waves are reported on in the IEMBS). We also restrict

it to under-represented categories with CV_u s smaller than -0.015 i.e. with non-negligible impacts and the likely targets of any interventions to improve datasets. CV_u s and CV_c s and their 95% CIs for all categories for all samples. at all waves are tabulated in Tables 3 to 14 in the Appendix.

We report CV_u identified categories with non-negligible impacts on GPS bias risks at wave 3 in column (i) of Table 2. Categories are in order of CV_u magnitude from largest to smallest, in italics if the category CV_c is also significant (i.e. its 95% CI does not overlap zero), and in normal text if not. 8 have such impacts. The five largest impacts are Age: 16-29, which is significantly larger than the others (i.e. CV_u 95% CIs do not overlap), GHQ-12: not recorded, HH structure: Other, Activity last week: student, and Tenure: Rented / Other. The latter four do not differ. After are Activity last week: unemployed, and four Ethnicity categories (African, Indian, other, not recorded then Bangladeshi), which are significantly smaller than the largest five but do not differ from each other. All categories except Activity last week: unemployed have significant CV_c s, implying that they reflect separate sample subgroups.

We report categories with non-negligible impacts on bias risks at wave 7 in column (i) of Table 3. 6 have such impacts. The five largest impacts are Age: 16-29, which is significantly larger than the others, HH structure: other, Activity last week: student, Tenure: Rented / Other, Activity last week: unemployed and GHQ-12: not recorded. The latter three impacts are significantly smaller than that of HH structure: other, but do not differ from each other. All have a significant CV_c s. We report categories with non-negligible impacts on bias risks at wave 14 in column (i) of Table 4. Five categories have such impacts. Age 16-29 is the largest, then Activity last week: student, Tenure: Rented / Other, GHQ-12: not recorded and HH Structure: Other. Only the first and last categories differ significantly. All have significant CV_c s.

Concerning the two overall datasets, response rates are similar to or 1-2% lower than in the GPS, due to lower response rates in other component samples (see columns (ii) and (iii) of Table 1 and following sections). Unweighted dataset overall CVs are slightly larger (significantly so from waves 8 to 12) than in the GPS (Fig. 1; see Appendix Table 2 for tabulated values and 95% CIs). Depending on wave, 2 to 4 more categories have non-negligible impacts on bias risks than in the GPS (column (ii) in Tables 2, 3 and 4). However, the five largest impacts are mostly the same (though order changes), with differences compared to the GPS mainly among those with smaller impacts (these reflect impacts in other samples: see following sections). All categories except Activity last week: Student have significant CV_cs. Hence, using the GPS as an overall dataset proxy does not have a major impact on results.

Overall CVs for the weighted dataset are also slightly larger than in the GPS, though fewer differences are significant (Fig. 1). At most, 3 more categories have non-negligible impacts on bias risks than in the GPS (column (iii) in Tables 2, 3 and 4). Again, there are few differences in those with the five largest impacts (though order changes), with most occurring among those with smaller impacts. All involved categories except Activity last week: student at wave 7 have significant CV_cs. Hence, the GPS results are also similar to those regarding overall dataset bias risks compared to the UK population.

4.1.2. EMBS samples

We report EMBS response rates in column (iv) of Table 1. They are 66% at wave two, increase to 81% by wave 5, decrease to 75% at wave 6, increase to 81% at wave 7, then with variation are broadly similar after. This is similar to in the GPS. We report overall CVs quantifying respondent representativeness in Fig. 1 (see Appendix Table 2 for tabulated values and 95%

CIs). All are significant, implying non-representativeness. They decrease from wave 2 to 4, then after are broadly similar, except at waves 11 and 12 when they are slightly larger (as these waves were fielded in 2020-21, the latter may reflect the COVID-19 pandemic). They are significantly larger (i.e. CV 95% CIs do not overlap) than in the GPS at waves 3, 11 and 12. Hence, EMBS response rates and non-response bias risks are mostly similar to in the GPS.

We report CV_u identified non-negligible category impacts on EMBS bias risks at wave 3 in column (iv) of Table 2. 7 categories have such impacts. The five largest impacts are as in the GPS except Ethnicity: Bangladeshi replaces Activity last week: student (order also changes). They do not differ significantly. All except Age: 16-29 are significantly larger than in the GPS. The impacts of the others (Sex: male, Activity last week: unemployed, Ethnicity: African and Activity last week: student) do not differ from each other, but are significantly smaller than those of the largest five. All except the last two categories have significant CV_{cs} , implying that they reflect separate sample subgroups.

We report non-negligible category impacts on bias risks at wave 7 in column (iv) of Table 3. 8 categories have such impacts. The five largest impacts differ slightly from in the GPS, with Ethnicity: Bangladeshi and Activity last week: student replacing Tenure: rented / other and Activity last week: unemployed (order also changes). Age: 16-29 is significantly larger than the others and than in the GPS. The next four do not differ. Tenure: rented / other, Activity last week: unemployed and Qualifications: not recorded are the last three categories, and differ only from Age: 16-29. Only the largest two categories have significant CV_{cs} .

We report non-negligible category impacts on bias risks at wave 14 in column (iv) of Table 4. 6 categories have such impacts. The five largest impacts differ slightly from in the GPS, with Ethnicity: African and Ethnicity: Bangladeshi replacing Activity last week: student

and HH structure: other (order also changes). The latter category is the 6th EMBS category. GHQ-12: not recorded is significantly larger than the others, and larger than in the GPS. The last four categories do not differ from the second largest, Ethnicity: African. Only the first two categories have significant CV_cs. Hence, the causes of non-response bias risks in the EMBS differ slightly from in the GPS, with some category impacts larger and Ethnicity: Bangladeshi and, at wave 14, Ethnicity: African among the five largest.

4.1.2. IEMBS samples

We report IEMBS (which enters the survey at wave 6) response rates in column (v) of Table 1. They are 66% at wave 7, increase to 72% at wave 8, decrease slightly at wave 9, increase to 77% at wave 10, decrease to 71% at waves 11 and 12, then increase to 81%. This is lower than in the benchmark GPS. We report overall CVs quantifying respondent representativeness in Fig. 1 (see Appendix Table ?? for tabulated values and 95% CIs). All differ significantly from zero, implying non-representativeness. Though variable, they decrease across waves, and are significantly larger than in the GPS at waves 7 to 11 but not at later waves. Hence, IEMBS response rates are lower than in the GPS. Non-response bias risks are greater than in the GPS up to wave 11, but not after.

We report CV_u identified non-negligible category impacts on bias risks in the IEMBS at wave 7 in column (v) of Table 3. 9 categories have such impacts. The five largest impacts differ slightly from the GPS, with Ethnicity: other and Sex: male replacing Activity last week: student and unemployed (order also changes). The largest four do not differ significantly. The largest two are larger than in the GPS. Sex: male only differs from Age: 16-29. The other categories are GHQ-12: not recorded, Activity last week: student, Qualifications: not recorded, then

Ethnicity: African. These do not differ from each other, or (other than the last, which does not differ from Sex: male) from the other categories except Age: 16-29. All except the last two have significant CV_cs, implying that they reflect separate sample subgroups.

We report non-negligible category impacts on bias risks at wave 14 in column (v) of Table 4. 9 categories have such impacts. The five largest impacts are as in the GPS except Ethnicity: African replaces HH structure: other (order also changes). They do not differ significantly. Tenure: rented / other is significantly larger than in the GPS. The other categories are HH structure: 1 adult, kids, Ethnicity: Bangladeshi, Activity last week: ill / impaired, then Qualifications: below degree. These do not differ from each other, or (except Activity last week: ill / impaired, which differs from Tenure: rented / other), from the five largest categories. The four largest categories have significant CV_cs. Hence, the causes of non-response bias risks in the IEMBS differ slightly from in the GPS, with some category impacts larger and Ethnicity: other and Sex: male (at wave 7) and Ethnicity: African (at wave 14) among the five largest.

4.2. RQ2: Do bias risks and their causes among long term survey respondents differ from those in general population samples?

We report BHPS (which enters the survey at wave 2) response rates in column (vi) of Table 1. They are 87% at wave 3, then similar or higher after, reaching 90-91%. This is higher than in the benchmark GPS. We report overall CVs quantifying respondent representativeness in Fig. 1 (see Appendix Table 2 for tabulated values and 95% CIs). All are significant, implying non-representativeness. They are broadly similar across waves, and mostly slightly but not

significantly lower than in the GPS. Hence, BHPS response rates are higher than in the GPS. Non-response bias risks are similar to in the GPS.

We report CV_u identified non-negligible category impacts on bias risks in the BHPS at wave 3 in column (vi) of Table 2. 7 categories have such impacts. The five largest impacts are as in GPS except Qualifications: below degree replaces HH Structure: other. They do not differ from each other, except HH Structure: other is significantly smaller than Age: 16-29, or from in the GPS. The others are Activity last week: unemployed then HH Structure: other, which do not differ but are significantly smaller than Age: 16-29 and GHQ-12: NR. All except the two Activity last week: student and Activity last week: unemployed have significant CV_c s, implying that they reflect separate sample subgroups.

We report non-negligible category impacts on bias risks at wave 7 in column (vi) of Table 3. 6 categories have such impacts. The five largest impacts are as in the GPS, except Qualifications: below degree replaces Activity last week: unemployed. They do not differ significantly from each other except the last two are smaller than the first. HH Structure: other is significantly smaller than in the GPS. The 6th category is HH Structure: 1 adult, kids, which differs only from the two largest categories. All categories except Activity last week: student have significant CV_c s.

We report non-negligible category impacts on bias risks at wave 14 in column (vi) of Table 4. 5 categories have such impacts. These impacts are as in the GPS, except Qualifications: below degree replaces Activity last week: student. They do not differ significantly from each other, or from in the GPS. All categories except Qualifications: below degree have significant CV_c s. Hence, the causes of non-response bias risks in the BHPS differ slightly from in GPS, with Qualifications: below degree among the five largest impacts.

5. Summary and Conclusions

Summary: We investigated non-response biases and their causes among substantively important ethnic minority and long term respondent subgroups compared to those in overall datasets in Understanding Society – the UK Household Longitudinal Study (UKHLS). We undertook this by comparing different UKHLS samples, thereby avoiding comparing samples including the same individuals. Given a lack of population values to use to quantify actual survey estimate biases, we computed Coefficients of Variation of the response propensities (CVs) to estimate bias risks and their causes, comparing survey wave $w-1$ respondents responding to wave w to all wave $w-1$ respondents issued. Depending on sample (some entered the UKHLS after its first wave), we included up to 13 waves in analyses. We included 8 survey measured auxiliary covariates quantifying sample member characteristics in regression models estimating response propensities, and also considered their impacts as bias risk causes.

Key findings: We used the General Population Sample (GPS) as the proxy for overall datasets, which was justified given the similarities we found between bias risks and their causes in unweighted samples from each. Comparable similarities existed between GPS samples and non-response weighted overall samples, implying that such risks and their causes will also reflect those compared to the UK population. In the GPS, bias risks existed but were relatively small. We used partial unconditional CVs quantify their causes, which showed that they were mainly due to under-representation of the covariate categories Age: 16-29, Activity last week: student, GHQ-12: not recorded, Tenure: Rented / other and HH Structure: other (we focused on under-represented categories). Most of these covariates are self-explanatory, and have previously been shown to be correlates of non-response in the UKHLS (e.g. Lynn et

al. 2012, 2023; Durrant et al. 2017; Borkowska 2019; Moore et al. submitted). The exception is GHQ-12, which is a measure of mental health issues, though no response does not necessarily reflect a refusal to answer: it could also reflect refusal to complete the separate self-completion element of the questionnaire in which the question was asked. We also used partial conditional CVs to examine whether categories represent separate sample subgroups or not, with results showing that the mentioned categories largely do.

We found some differences in bias risks and their causes among sample subgroups. We used the Ethnic Minority Boost (EMBS) and the Immigrant and Ethnic Minority Boost (IEMBS) samples to consider ethnic minorities. EMBS response rates and bias risks mostly did not differ from in the GPS. IEMBS (studied from wave 7 on) response rates were lower, and bias risks were larger up to wave 11 but not after. Risk causes in the EMBS differed slightly from in the GPS, with the impacts of the five most under-represented categories sometimes larger and Ethnicity: Bangladeshi and Ethnicity: African often among the group. We found similar in the IEMBS, with Ethnicity: other, which included white European immigrants, also sometimes among the five categories. These categories sometimes reflected separate sample subgroups, but sometimes did not. These findings are consistent with previous research showing that response rates and biases / bias risks and their causes among ethnic minorities can differ from in the general population and also depend on the ethnicity of those included (e.g. Feskens et al. 2007; Deding et al. 2013; Font & Mendez 2013; Lipps et al. 2013; Morales & Ros 2013; Smith 2013; Ahlmark et al. 2015; Kappelhof 2015, 2017; Cai & Baker 2021).

We used British Household Panel Survey (BHPS) samples, which consist of original sample members from the UKHLS's predecessor which began in 1991, to consider long term survey respondents. BHPS sample (studied from wave 3 on) response rates were higher than in the GPS, but bias risks were similar. Regarding risk causes, they were similar to in the GPS,

but Qualifications: below degree was among the five most under-represented categories. Sometimes it reflected a separate sample subgroup, but sometimes it did not. No previous research has explicitly considered biases / bias risks and their causes among long term survey respondents, but these findings are consistent with work on the UKHLS showing that such respondents tend to be older, better educated and less residentially mobile (James 2024; see also Lugtig 2014; Gerry & Papadopoulos 2015 for comparable findings).

Implications of findings for survey practice: Our findings concerning bias risks and their causes among ethnic minority and long term survey respondent subgroups imply that there are still risks in the UKHLS datasets that remain to be addressed. Note that these risks are relatively small, which is a testament to the effectiveness of the extensive efforts already made to improve the datasets (see Cabrera-Alvarez et al. 2024 for a list of references on these efforts). Nonetheless, they exist, and attempts should be made to reduce them to maximise dataset quality (see also ‘Future Research’). In addition, our findings imply that similar bias risks are likely to exist among these subgroups in other surveys (see references in the last section for relevant previous research). We, however, add a cautionary note on this topic. The bias risks and their causes reported in this paper are those existing after the fore-mentioned efforts to improve UKHLS datasets. Hence, they are unlikely to be directly generalisable to other surveys, which probably will have utilised different methods to improve datasets. Consequently, our findings should only be taken as an indication of the likely existence of such risks, and research undertaken to understand their exact nature in the survey(s) of interest.

Limitations: Beyond the issues concerning the generalisability of our findings to other surveys outlined in the last paragraph, a limitation of our research is that actual non-response biases were not quantified. Instead, respondents were compared to benchmarks from the

survey itself i.e. the issued samples. This was because, as in many studies (Hand 2018: but see Borkowska 2019 for the exception in the UKHLS), population values for most considered characteristics do not exist. A second limitation is that we only included issued wave $w - 1$ respondents in samples, and not wave w respondents who had not responded to that wave or responding wave w HH joiners. This was because the latter two groups did not have common (i.e. wave $w - 1$) auxiliary information, and meant that we could not consider how they affected response rates and biases risks and their causes. We utilised our approach because it enabled us to consider a wide range of auxiliary covariates that have high granularity. The alternative would have been to use HH grid and questionnaire information only, which is (also) available for the two groups but covers fewer sample member characteristics and, when the same characteristics are quantified, includes fewer answer categories: specifically, of the covariates we did include, Qualifications and GHQ-12 are not available and Activity last week has only employed or not employed categories. For research on biases in the UKHLS using the latter approach, see Cabrera-Alvarez et al. 2024 and Moore et al. (submitted).

Future research: Our findings indicate two questions that should be pursued in future research related to the topics considered in this paper. The first is how to reduce the bias risks reported in the UKHLS datasets. It is likely that this will involve targeting individuals with the characteristics identified in our analyses within each subgroup to increase their response, which so far has not been undertaken: existing bias minimisation efforts are not subgroup-specific (see Cabrera-Alvarez et al. 2024 for references). Initial work though, should seek to further delineate some of the categories / sample subgroups identified. Whether GHQ-12 item non-response is due to individuals refusing to answer because of poor mental health

(see Wright et al. 2023 for examples) or because, for whatever reason, they refuse to complete the self-completion questionnaire element must be investigated. In addition, since categories sometimes have non-significant CV_cs, exactly which individuals of Bangladeshi ethnicity (in the EMB samples) or with below degree levels of education (in the BHPS samples) are under-represented must be understood to maximise intervention efficiency (see also section 3.4).

The second is to quantify biases and their causes among such subgroups in other surveys, and seek to reduce them. To undertake the former, we recommend use of the methods utilised in this paper i.e. the computation of representativeness indicators to estimate bias risks and their causes. This reduces the need for population values for survey estimates of interest to quantify actual biases, although obviously if such values exist they should be used in preference. To reduce the causes of any bias risks found, targeting of individuals in under-represented categories identified in the analyses will again probably be required. By adopting this approach, the quality of data on these substantively important subgroups can also be maximised in the surveys considered.

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Table 1. Analysis sample sizes ('N') and response rates ('RR') at each wave. 'All' is the overall unweighted samples. 'All_w' is the overall non-response weighted samples, which are slightly smaller than the unweighted equivalent because not all individuals have non-response weights (see main text). Individuals from the IEMBS are first analysed at wave 7. Individuals from the BHPS are first analysed at wave 3.

Wave		GPS	All	All_w	EMBS	IEMBS	BHPS
		(i)	(ii)	(iii)	(iv)	(v)	(vi)
2	N	40447	46719	46313	6272		
	RR (%)	77.19	75.71	75.78	66.17		
3	N	33160	49086	48809	4774		11152
	RR (%)	81.71	82.20	82.20	73.40		87.41
4	N	29790	44438	44195	4265		10383
	RR (%)	86.53	85.95	85.95	77.96		87.56
5	N	27933	41532	41291	4003		9596
	RR (%)	88.93	88.43	88.41	81.21		89.95
6	N	26656	39545	39309	3753		9136
	RR (%)	84.08	83.97	83.96	75.49		87.15
7	N	23980	39609	39140	3329	3804	8496
	RR (%)	88.81	86.27	86.43	80.84	66.64	90.02
8	N	23289	37873	37500	3218	3105	8261
	RR (%)	88.66	87.24	87.24	82.63	71.69	90.87
9	N	22241	36041	35672	3111	2700	7989
	RR (%)	87.33	85.72	85.78	77.08	69.74	90.01
10	N	20726	33253	32915	2759	2190	7578
	RR (%)	89.73	88.21	88.21	81.04	76.99	89.9
11	N	20146	32033	31709	2647	2006	7234
	RR (%)	88.03	87.23	87.26	80.62	74.18	91.03
12	N	18847	29896	29609	2407	1673	6969
	RR (%)	87.28	85.74	85.77	77.40	71.43	87.90
13	N	17660	27681	27469	2120	1357	6544
	RR (%)	88.28	87.24	87.23	79.91	80.77	88.16
14	N	16925	26564	26363	1999	1368	6272
	RR (%)	89.29	88.30	88.29	80.99	81.07	89.51

Table 2. Auxiliary covariate categories with statistically significant unconditional CVs (CV_us) smaller than -0.015 for each sample at wave 3.

Category CV_us and their 95% CIs (in brackets) reported below each category name. Those also with significant conditional CVs are italicised. 'All' is the overall unweighted sample. 'All_w' is the overall weighted sample.

GPS	All	All_w	EMBS	IEMBS	BHPS
(i)	(ii)	(iii)	(iv)	(v)	(vi)
<i>Age: 16-29</i>	<i>Age: 16-29</i>	<i>Age: 16-29</i>	<i>GHQ-12: NR</i>		<i>Age: 16-29</i>
-0.051 (-0.055 - -0.047)	-0.052 (-0.055 - -0.049)	-0.053 (-0.057 - -0.050)	-0.058 (-0.067 - -0.048)		-0.044 (-0.050 - -0.038)
<i>GHQ-12: NR</i>	<i>GHQ-12: NR</i>	<i>GHQ-12: NR</i>	<i>Age: 16-29</i>		<i>GHQ-12: NR</i>
-0.041 (-0.046 - -0.036)	-0.049 (-0.052 - -0.045)	-0.047 (-0.051 - -0.043)	-0.057 (-0.066 - -0.048)		-0.043 (-0.050 - -0.035)
<i>HHstr: Other</i>	<i>HHstr: Other</i>	<i>HHstr: Other</i>	<i>HHstr: Other</i>		<i>Quals: Below_degree</i>
-0.036 (-0.040 - -0.032)	-0.037 (-0.040 - -0.034)	-0.037 (-0.040 - -0.034)	-0.054 (-0.062 - -0.046)		-0.032 (-0.039 - -0.025)
<i>Actlw: Student</i>	<i>Tenure: Rented_Other</i>	<i>Tenure: Rented_Other</i>	<i>Tenure: Rented_Other</i>		<i>Tenure: Rented_Other</i>
-0.032 (-0.037 - -0.028)	-0.035 (-0.038 - -0.032)	-0.033 (-0.036 - -0.030)	-0.053 (-0.061 - -0.045)		-0.024 (-0.030 - -0.018)
<i>Tenure: Rented_Other</i>	<i>Actlw: Student</i>	<i>Actlw: Student</i>	<i>Ethnicity: Bangladeshi</i>		<i>Actlw: Student</i>
-0.028 (-0.032 - -0.024)	-0.031 (-0.034 - -0.028)	-0.032 (-0.035 - -0.028)	-0.048 (-0.060 - -0.036)		-0.022 (-0.028 - -0.016)
<i>Actlw: Unemployed</i>	<i>Ethnicity: Bangladeshi</i>	<i>Actlw: Unemployed</i>	<i>Sex: Male</i>		<i>Actlw: Unemployed</i>
-0.018 (-0.022 - -0.013)	-0.029 (-0.033 - -0.025)	-0.019 (-0.022 - -0.015)	-0.022 (-0.029 - -0.014)		-0.021 (-0.028 - -0.014)
<i>Ethnicity: African</i>	<i>Ethnicity: African</i>	<i>Ethnicity: African</i>	<i>Actlw: Unemployed</i>		<i>HHstr: Other</i>
-0.018 (-0.022 - -0.013)	-0.023 (-0.027 - -0.019)	-0.018 (-0.023 - -0.014)	-0.020 (-0.030 - -0.010)		-0.020 (-0.026 - -0.015)
<i>Ethnicity: Indian</i>	<i>Actlw: Unemployed</i>	<i>Ethnicity: Other</i>	<i>Ethnicity: African</i>		
-0.017 (-0.022 - -0.012)	-0.021 (-0.025 - -0.018)	-0.018 (-0.021 - -0.014)	-0.019 (-0.031 - -0.008)		
<i>Ethnicity: Other</i>	<i>Quals: Below_degree</i>	<i>Quals: Below_degree</i>	<i>Actlw: Student</i>		
-0.017 (-0.022 - -0.013)	-0.020 (-0.023 - -0.017)	-0.017 (-0.020 - -0.015)	-0.019 (-0.028 - -0.009)		
<i>Ethnicity: Bangladeshi</i>	<i>Ethnicity: Other</i>	<i>Ethnicity: Bangladeshi</i>			
-0.016 (-0.022 - -0.011)	-0.017 (-0.021 - -0.013)	-0.016 (-0.020 - -0.011)			
	<i>Ethnicity: Indian</i>				
	-0.017 (-0.020 - -0.013)				
	<i>Ethnicity: Pakistani</i>				
	-0.016 (-0.019 - -0.012)				

Table 3. Auxiliary covariate categories with statistically significant unconditional CVs (CV_us) smaller than -0.015 for each sample at wave 7.

Category CV_us and their 95% CIs (in brackets) reported below each category name. Those also with significant conditional CVs are italicised. 'All' is the overall unweighted sample. 'All_w' is the overall weighted sample.

GPS	All	All_w	EMBS	IEMBS	BHPS
(i)	(ii)	(iii)	(iv)	(v)	(vi)
<i>Age: 16-29</i>	<i>Age: 16-29</i>	<i>Age: 16-29</i>	<i>Age: 16-29</i>	<i>Age: 16-29</i>	<i>Age: 16-29</i>
-0.038 (-0.042 - -0.034)	-0.052 (-0.055 - -0.049)	-0.049 (-0.052 - -0.046)	-0.060 (-0.069 - -0.051)	-0.072 (-0.085 - -0.059)	-0.043 (-0.049 - -0.037)
<i>HHstr: Other</i>	<i>Tenure: Rented_Other</i>	<i>Tenure: Rented_Other</i>	<i>GHQ-12: NR</i>	<i>Tenure: Rented_Other</i>	<i>Quals: Below_degree</i>
-0.030 (-0.034 - -0.027)	-0.041 (-0.044 - -0.038)	-0.034 (-0.037 - -0.031)	-0.035 (-0.045 - -0.026)	-0.054 (-0.063 - -0.044)	-0.031 (-0.038 - -0.024)
<i>Actlw: Student</i>	<i>HHstr: Other</i>	<i>Actlw: Student</i>	<i>HHstr: Other</i>	<i>Ethnicity: Other</i>	<i>Actlw: Student</i>
-0.025 (-0.029 - -0.021)	-0.036 (-0.039 - -0.033)	-0.032 (-0.035 - -0.029)	-0.028 (-0.035 - -0.021)	-0.050 (-0.063 - -0.037)	-0.025 (-0.042 - -0.008)
<i>Tenure: Rented_Other</i>	<i>Actlw: Student</i>	<i>HHstr: Other</i>	<i>Ethnicity: Bangladeshi</i>	<i>HHstr: Other</i>	<i>Tenure: Rented_Other</i>
-0.023 (-0.027 - -0.020)	-0.033 (-0.037 - -0.029)	-0.032 (-0.034 - -0.029)	-0.026 (-0.037 - -0.014)	-0.048 (-0.060 - -0.036)	-0.020 (-0.026 - -0.014)
<i>Actlw: Unemployed</i>	<i>Ethnicity: Other</i>	<i>Ethnicity: Other</i>	<i>Actlw: Student</i>	<i>Sex: Male</i>	<i>HHstr: Other</i>
-0.020 (-0.024 - -0.015)	-0.032 (-0.036 - -0.028)	-0.029 (-0.033 - -0.025)	-0.024 (-0.033 - -0.015)	-0.041 (-0.051 - -0.030)	-0.019 (-0.024 - -0.014)
<i>GHQ-12: NR</i>	<i>Ethnicity: African</i>	<i>Actlw: Unemployed</i>	<i>Quals: NR</i>	<i>GHQ-12: NR</i>	<i>HHstr: 1_adult_kids</i>
-0.017 (-0.021 - -0.012)	-0.030 (-0.034 - -0.026)	-0.019 (-0.023 - -0.016)	-0.020 (-0.032 - -0.008)	-0.041 (-0.054 - -0.028)	-0.016 (-0.023 - -0.009)
	<i>GHQ-12: NR</i>	<i>GHQ-12: NR</i>	<i>Tenure: Rented_Other</i>	<i>Actlw: Student</i>	
	-0.025 (-0.029 - -0.022)	-0.019 (-0.023 - -0.015)	-0.020 (-0.029 - -0.011)	-0.038 (-0.057 - -0.018)	
	<i>Actlw: Unemployed</i>	<i>Ethnicity: African</i>	<i>Actlw: Unemployed</i>	<i>Quals: NR</i>	
	-0.023 (-0.026 - -0.019)	-0.019 (-0.023 - -0.015)	-0.018 (-0.028 - -0.009)	-0.035 (-0.045 - -0.024)	
	<i>Ethnicity: Bangladeshi</i>			<i>Ethnicity: African</i>	
	-0.019 (-0.022 - -0.016)			-0.020 (-0.032 - -0.008)	
	<i>Ethnicity: Pakistani</i>				
	-0.017 (-0.020 - -0.014)				

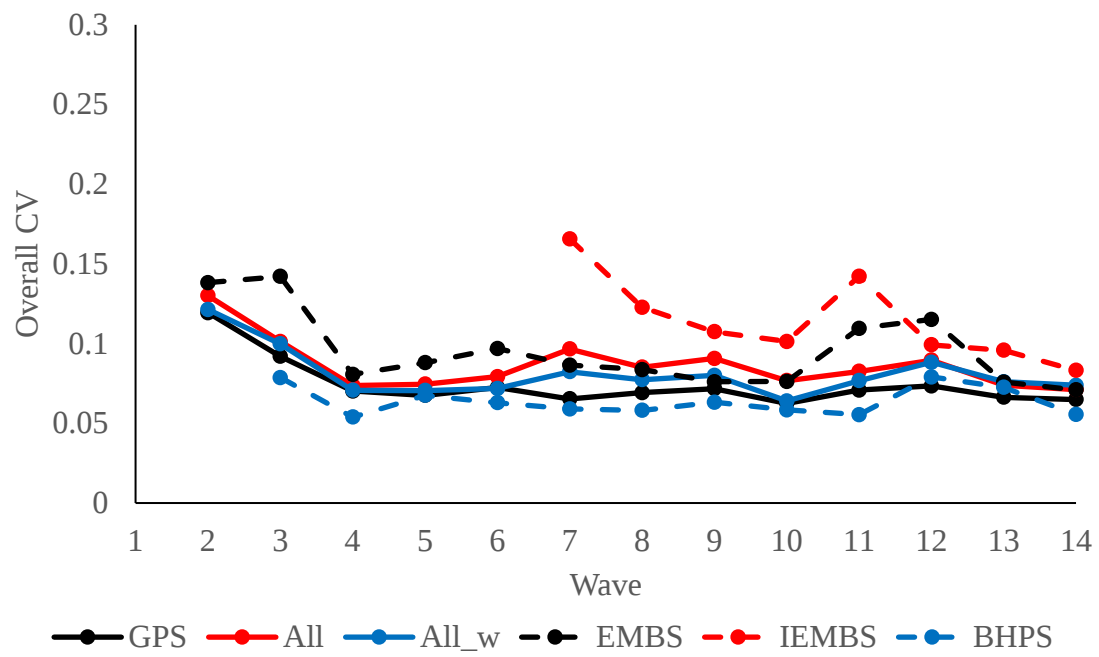
Table 4. Auxiliary covariate categories with statistically significant unconditional CVs (CV_{us}) smaller than -0.015 for each sample at wave 14.

Category CV_{us} and their 95% CIs (in brackets) reported below each category name. Those also with significant conditional CVs are italicised. 'All' is the overall unweighted sample. 'All_w' is the overall weighted sample.

GPS	All	All_w	EMBS	IEMBS	BHPS
(i)	(ii)	(iii)	(iv)	(v)	(vi)
<i>Age: 16-29</i>	<i>Age: 16-29</i>	<i>Age: 16-29</i>	<i>GHQ-12: NR</i>	<i>Tenure: Rented_Other</i>	<i>Age: 16-29</i>
-0.036 (-0.041 - -0.032)	-0.037 (-0.040 - -0.033)	-0.036 (-0.040 - -0.033)	-0.050 (-0.062 - -0.037)	-0.044 (-0.054 - -0.033)	-0.034 (-0.040 - -0.027)
<i>Actlw: Student</i>	<i>GHQ-12: NR</i>	<i>GHQ-12: NR</i>	<i>Ethnicity: African</i>	<i>Age: 16-29</i>	<i>GHQ-12: NR</i>
-0.028 (-0.033 - -0.023)	-0.032 (-0.036 - -0.028)	-0.033 (-0.037 - -0.028)	-0.034 (-0.048 - -0.019)	-0.038 (-0.049 - -0.026)	-0.028 (-0.037 - -0.019)
<i>Tenure: Rented_Other</i>	<i>Tenure: Rented_Other</i>	<i>Tenure: Rented_Other</i>	<i>Age: 16-29</i>	<i>Ethnicity: African</i>	<i>Tenure: Rented_Other</i>
-0.027 (-0.031 - -0.023)	-0.030 (-0.034 - -0.027)	-0.030 (-0.033 - -0.027)	-0.022 (-0.033 - -0.010)	-0.037 (-0.053 - -0.020)	-0.024 (-0.031 - -0.018)
<i>GHQ-12: NR</i>	<i>Actlw: Student</i>	<i>Actlw: Student</i>	<i>Tenure: Rented_Other</i>	<i>GHQ-12: NR</i>	<i>HHstr: Other</i>
-0.026 (-0.032 - -0.021)	-0.025 (-0.029 - -0.021)	-0.027 (-0.031 - -0.023)	-0.020 (-0.031 - -0.008)	-0.034 (-0.046 - -0.023)	-0.020 (-0.025 - -0.014)
<i>HHstr: Other</i>	<i>HHstr: Other</i>	<i>Ethnicity: African</i>	<i>Ethnicity: Bangladeshi</i>	<i>Actlw: Student</i>	<i>Quals: Below_degree</i>
-0.020 (-0.024 - -0.017)	-0.024 (-0.027 - -0.021)	-0.026 (-0.031 - -0.021)	-0.019 (-0.030 - -0.008)	-0.031 (-0.046 - -0.015)	-0.019 (-0.027 - -0.011)
	<i>Ethnicity: African</i>	<i>HHstr: Other</i>	<i>HHstr: Other</i>	<i>HHstr: 1_adult_kids</i>	
	-0.022 (-0.027 - -0.017)	-0.023 (-0.025 - -0.020)	-0.019 (-0.027 - -0.010)	-0.030 (-0.040 - -0.019)	
	<i>Ethnicity: Bangladeshi</i>	<i>HHstr: 1_adult_kids</i>		<i>Ethnicity: Bangladeshi</i>	
	-0.016 (-0.021 - -0.012)	-0.017 (-0.021 - -0.013)		-0.026 (-0.038 - -0.013)	
		<i>Ethnicity: Bangladeshi</i>		<i>Actlw: Ill_Impaired</i>	
		-0.017 (-0.021 - -0.012)		-0.026 (-0.032 - -0.020)	
				<i>Quals: Below_degree</i>	
				-0.024 (-0.036 - -0.011)	

Figure 1. Overall CVs for the analysed UKHLS samples at each wave. 'All' is the overall unweighted samples. 'All_w' is the overall non-response weighted samples. Individuals from the IEMBS are first analysed at wave 7. Individuals from the BHPS are first analysed at wave 3.

Fig. 1



Appendix

Partial unconditional and conditional CVs (CV_us and CV_cs) derivation

CV_us and CV_cs are derived from respectively the between and within ANOVA variance decomposition components, and bounded by the overall CV. CV_us quantify univariate associations with propensity variation. Using the same notation as in the main text, the CV_u for covariate Z with K categories is

$$\widehat{CV}_u(Z, p_x) = \frac{\sqrt{\frac{1}{n} \sum_{k=1}^K n_k (\hat{p}_k - \hat{p})^2}}{\hat{p}}, \quad (1)$$

where n_k is covariate category k size, and $\hat{p}_k$ is the mean response propensity in k . Large values suggest substantial between category variability and non-representativeness associated with Z . Category CVs decompose and are bounded by covariate CVs. The CV_u for category k of Z is

$$\widehat{CV}_u(Z_k, p_x) = \frac{\sqrt{\frac{n_k}{n} (\hat{p}_k - \hat{p})^2}}{\hat{p}}. \quad (2)$$

Values can be positive or negative, implying respectively over- or under-representation. CV_cs quantify associations conditional on the other auxiliary covariates. The CV_c for covariate Z is:

$$\widehat{CV}_c(Z, p_x) = \frac{\sqrt{\frac{1}{n} \sum_{l=1}^L \sum_{i \in l} (p_i - \hat{p}_l)^2}}{\hat{p}}, \quad (3)$$

where $\hat{p}_l$ is the mean propensity of the l th of L cells resulting from cross-classifying $\mathbf{x}$ excluding Z and propensity modelling given this covariate subset. The CV_c for category k of Z is

$$\widehat{CV}_c(Z_k, p_x) = \frac{\sqrt{\frac{1}{n} \sum_{l=1}^L \sum_{i \in l} h_i (p_i - \hat{p}_l)^2}}{\hat{p}}, \quad (4)$$

where h_i indicates whether subject i is in k . Large CV_cs imply substantial solely attributed non-representativeness. In addition, adjustments to correct biases caused by estimating propensities exist, as do approximate standard errors that when converted into 95% Confidence Intervals ($CV \pm 1.96 \times SE$) enable inference regarding (comparative) representativeness or otherwise (de Heij et al. 2015). Population level analysis is also possible by applying sample weights.

2. CV inferences about observed non-response biases

Overall CVs predict the maximum absolute standardised bias of survey covariate means when non-response correlates maximally to the auxiliary covariates. Given an unknown covariate set explaining response behaviour ($\mathbf{x}$), the Horvitz-Thompson estimate of a covariate bias is approximated by the covariance between sample response propensities and covariate values divided by mean propensity (Bethlehem 1988). This value can be standardised by dividing by the covariate sample standard deviation ($S(y)$, for covariate y with response mean $\hat{y}_r$). By then replacing the numerator covariance with its absolute maxima, which by the Cauchy Schwartz inequality is the product of involved covariate standard deviations, the survey maximum absolute standardised bias is estimated. This value is approximated by the overall CV if the covariates $\mathbf{x}$ are replaceable by utilised set $\mathbf{x}$ (Schouten et al. 2011; de Heij et al. 2015), e.g.

$$\frac{Bias(\hat{y}_r)}{S(y)} = \frac{Cov(y, p_{\mathbf{x}})}{\widehat{p_{\mathbf{x}}} S(y)} = \frac{Cov(y, p_{\mathbf{x}})}{\hat{p} S(y)} \leq \frac{SD S(y)}{\hat{p} S(y)} = \frac{SD}{\hat{p}}. \quad (5)$$

The assumption that set $\mathbf{x}$ can be used in estimation is untestable. In practice, including correlates of both propensities and survey covariates is essential. Moore et al. (2021) also describe partial CV predictions about auxiliary covariate (analogue) biases. Equations (2) and (4) indicate that, like overall CVs, partial covariate CVs consider all subjects, but use weighted category mean deviations from average propensity or subject predictions as expected values. In terms of (6), propensity – covariate covariance is maximal, so for two category covariates the absolute standardised (conditional) category mean bias is predicted, a value independent of focal category. With multi-category covariates, K biases (focal category vs. others or the reverse) exist. For these, covariate CVs predict the bias when other deviations are identical (its maxima), because squaring over-emphasises larger values. Equations 3) and 5) indicate that partial category CVs only consider focal category deviations. Hence, they under-estimate category (absolute with CVs) biases, with discrepancies smaller when, due to category size or deviation, contributions to covariate inequalities are large, i.e. they predict bias minima.

Table A1. Numbers of issued wave $w-1$ respondents, issued wave $w-1$ respondents with non-missing auxiliary covariate values (i.e. analysis sample sizes), and wave w respondents at each wave for samples considered in the paper. ‘All’ is the overall dataset samples. ‘All_w’ is the overall weighted dataset samples.

	GPS	All	All_w	EMB	IEMB	BHPS
Wave Two:						
Wave $w-1$ issued respondents	40559	46878	46458	6319		
with auxiliary covariate values	40447	46719	46313	6272		
Wave w respondents	31220	35370	35098	4150		
Wave Three:						
Wave $w-1$ issued respondents	33487	49647	49367	4811		9586
with auxiliary covariate values	33160	49086	48809	4774		9452
Wave w respondents	27095	40347	40119	3504		8313
Wave Four:						
Wave $w-1$ issued respondents	30087	44921	44677	4305		8858
with auxiliary covariate values	29790	44438	44195	4265		8758
Wave w respondents	25777	38193	37986	3325		7705
Wave Five:						
Wave $w-1$ issued respondents	28375	42230	41985	4081		8177
with auxiliary covariate values	27933	41532	41291	4003		8046
Wave w respondents	24842	36725	36507	3251		7244
Wave Six:						
Wave $w-1$ issued respondents	27093	40308	40071	3844		7795
with auxiliary covariate values	26656	39545	39309	3753		7616
Wave w respondents	22412	33207	33005	2833		6647
Wave Seven:						
Wave $w-1$ issued respondents	24325	40681	40189	3405	4278	7158
with auxiliary covariate values	23980	39609	39140	3329	3804	7026
Wave w respondents	21296	34170	33827	2691	2535	6333

Wave Eight:						
Wave w-1 issued respondents	23631	38514	38132	3284	3221	6883
with auxiliary covariate values	23289	37873	37500	3218	3105	6794
Wave w respondents	20648	33040	32714	2659	2226	6185
Wave Nine:						
Wave w-1 issued respondents	22724	36912	36532	3214	2800	6699
with auxiliary covariate values	22241	36041	35672	3111	2700	6552
Wave w respondents	19423	30895	30601	2398	1883	5925
Wave Ten:						
Wave w-1 issued respondents	21376	34380	34035	2907	2270	6413
with auxiliary covariate values	20726	33253	32915	2759	2190	6215
Wave w respondents	18597	29332	29033	2236	1686	5609
Wave Eleven:						
Wave w-1 issued respondents	20632	32917	32583	2777	2094	6046
with auxiliary covariate values	20146	32033	31709	2647	2006	5901
Wave w respondents	17734	27941	27670	2134	1488	5387
Wave Twelve:						
Wave w-1 issued respondents	19418	30995	30696	2592	1792	5843
with auxiliary covariate values	18847	29896	29609	2407	1673	5664
Wave w respondents	16450	25634	25395	1863	1195	4977
Wave Thirteen:						
Wave w-1 issued respondents	18158	28605	28387	2263	1462	5420
with auxiliary covariate values	17660	27681	27469	2120	1357	5285
Wave w respondents	15590	24149	23962	1694	1096	4657
Wave Fourteen:						
Wave w-1 issued respondents	17445	27526	27323	2166	1480	5150
with auxiliary covariate values	16925	26564	26363	1999	1368	5017
Wave w respondents	15113	23455	23276	1619	1109	4483

Table 2: GPS, overall unweighted ('All') and weighted ('All_w'), EMBS, IEMBS and BHPS sample dataset overall CVs and 95% CIs (in brackets) at each wave.

IEMBS samples are first studied at wave 7, BHPS samples at wave 3. Italics indicate significance.

Wave	GPS	All	All_w	EMBS	IEMBS	BHPS
2	<i>0.119(0.114 - 0.125)</i>	<i>0.130(0.125 - 0.135)</i>	<i>0.121(0.116 - 0.127)</i>	<i>0.138(0.120 - 0.156)</i>		
3	<i>0.092(0.086 - 0.098)</i>	<i>0.101(0.097 - 0.106)</i>	<i>0.100(0.095 - 0.104)</i>	<i>0.142(0.125 - 0.159)</i>		<i>0.079(0.070 - 0.087)</i>
4	<i>0.070(0.065 - 0.075)</i>	<i>0.074(0.069 - 0.078)</i>	<i>0.071(0.066 - 0.075)</i>	<i>0.081(0.064 - 0.098)</i>		<i>0.054(0.045 - 0.063)</i>
5	<i>0.067(0.062 - 0.073)</i>	<i>0.075(0.070 - 0.079)</i>	<i>0.071(0.066 - 0.075)</i>	<i>0.088(0.072 - 0.104)</i>		<i>0.067(0.059 - 0.076)</i>
6	<i>0.072(0.067 - 0.078)</i>	<i>0.079(0.074 - 0.084)</i>	<i>0.072(0.067 - 0.077)</i>	<i>0.097(0.077 - 0.117)</i>		<i>0.063(0.053 - 0.072)</i>
7	<i>0.065(0.060 - 0.071)</i>	<i>0.097(0.092 - 0.101)</i>	<i>0.082(0.078 - 0.087)</i>	<i>0.086(0.068 - 0.105)</i>	<i>0.166(0.144 - 0.188)</i>	<i>0.059(0.050 - 0.068)</i>
8	<i>0.069(0.064 - 0.075)</i>	<i>0.085(0.081 - 0.090)</i>	<i>0.077(0.073 - 0.082)</i>	<i>0.084(0.066 - 0.101)</i>	<i>0.123(0.101 - 0.145)</i>	<i>0.058(0.049 - 0.067)</i>
9	<i>0.072(0.066 - 0.078)</i>	<i>0.091(0.086 - 0.095)</i>	<i>0.080(0.075 - 0.085)</i>	<i>0.076(0.055 - 0.097)</i>	<i>0.107(0.082 - 0.133)</i>	<i>0.063(0.054 - 0.072)</i>
10	<i>0.063(0.057 - 0.068)</i>	<i>0.077(0.072 - 0.081)</i>	<i>0.064(0.059 - 0.069)</i>	<i>0.076(0.056 - 0.096)</i>	<i>0.101(0.077 - 0.125)</i>	<i>0.058(0.049 - 0.068)</i>
11	<i>0.071(0.065 - 0.077)</i>	<i>0.083(0.078 - 0.088)</i>	<i>0.077(0.072 - 0.082)</i>	<i>0.110(0.088 - 0.131)</i>	<i>0.142(0.115 - 0.169)</i>	<i>0.055(0.046 - 0.065)</i>
12	<i>0.073(0.067 - 0.080)</i>	<i>0.090(0.084 - 0.095)</i>	<i>0.088(0.083 - 0.094)</i>	<i>0.115(0.092 - 0.138)</i>	<i>0.099(0.066 - 0.132)</i>	<i>0.079(0.068 - 0.090)</i>
13	<i>0.066(0.060 - 0.073)</i>	<i>0.074(0.068 - 0.079)</i>	<i>0.076(0.070 - 0.082)</i>	<i>0.076(0.051 - 0.100)</i>	<i>0.096(0.066 - 0.126)</i>	<i>0.072(0.061 - 0.084)</i>
14	<i>0.065(0.058 - 0.071)</i>	<i>0.071(0.066 - 0.077)</i>	<i>0.074(0.068 - 0.080)</i>	<i>0.071(0.046 - 0.096)</i>	<i>0.083(0.053 - 0.113)</i>	<i>0.056(0.044 - 0.067)</i>

Table 3: GPS sample covariate category CV_Us and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2	-0.012(-0.012 - -0.012)	0.011(0.011 - 0.011)	-0.066(-0.066 - -0.066)	-0.002(-0.002 - -0.002)	0.003(0.003 - 0.003)	0.026(0.026 - 0.026)
3	-0.009(-0.009 - -0.009)	0.008(0.008 - 0.008)	-0.051(-0.051 - -0.050)	-0.003(-0.003 - -0.003)	0.007(0.007 - 0.007)	0.010(0.010 - 0.010)
4	-0.005(-0.005 - -0.004)	0.004(0.004 - 0.004)	-0.040(-0.040 - -0.039)	-0.003(-0.003 - -0.003)	0.004(0.003 - 0.004)	0.014(0.014 - 0.014)
5	-0.004(-0.004 - -0.004)	0.003(0.003 - 0.004)	-0.038(-0.039 - -0.038)	-0.005(-0.005 - -0.005)	0.002(0.001 - 0.002)	0.011(0.011 - 0.011)
6	-0.003(-0.003 - -0.003)	0.003(0.003 - 0.003)	-0.044(-0.045 - -0.044)	-0.008(-0.008 - -0.008)	0.002(0.002 - 0.002)	0.013(0.013 - 0.014)
7	-0.005(-0.005 - -0.005)	0.005(0.004 - 0.005)	-0.038(-0.039 - -0.038)	-0.005(-0.005 - -0.004)	-0.005(-0.006 - -0.005)	0.009(0.008 - 0.009)
8	-0.002(-0.002 - -0.002)	0.002(0.002 - 0.002)	-0.043(-0.044 - -0.043)	-0.006(-0.006 - -0.006)	-0.002(-0.003 - -0.002)	0.007(0.007 - 0.007)
9	-0.005(-0.005 - -0.005)	0.005(0.004 - 0.005)	-0.044(-0.044 - -0.044)	-0.008(-0.009 - -0.008)	-0.005(-0.006 - -0.005)	0.013(0.013 - 0.014)
10	-0.006(-0.006 - -0.006)	0.005(0.005 - 0.006)	-0.037(-0.037 - -0.037)	-0.012(-0.012 - -0.012)	-0.003(-0.004 - -0.003)	0.011(0.011 - 0.011)
11	-0.005(-0.005 - -0.005)	0.004(0.004 - 0.005)	-0.033(-0.033 - -0.033)	-0.011(-0.011 - -0.010)	-0.001(-0.001 - -0.000)	0.009(0.009 - 0.010)
12	-0.010(-0.011 - -0.010)	0.009(0.009 - 0.009)	-0.035(-0.036 - -0.035)	-0.010(-0.011 - -0.010)	-0.003(-0.003 - -0.002)	0.008(0.008 - 0.008)
13	-0.006(-0.006 - -0.005)	0.005(0.005 - 0.005)	-0.040(-0.040 - -0.039)	-0.007(-0.008 - -0.007)	0.003(0.002 - 0.003)	0.011(0.010 - 0.011)
14	-0.006(-0.006 - -0.005)	0.005(0.005 - 0.005)	-0.036(-0.037 - -0.036)	-0.008(-0.008 - -0.008)	-0.005(-0.005 - -0.005)	0.006(0.006 - 0.007)
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2	0.032(0.032 - 0.033)	0.017(0.017 - 0.017)	0.002(0.001 - 0.002)	-0.025(-0.025 - -0.024)	-0.038(-0.039 - -0.038)	0.033(0.032 - 0.033)
3	0.028(0.027 - 0.028)	0.012(0.011 - 0.012)	-0.001(-0.001 - -0.001)	-0.018(-0.018 - -0.017)	-0.032(-0.033 - -0.032)	0.025(0.025 - 0.025)
4	0.018(0.018 - 0.019)	0.007(0.007 - 0.007)	0.003(0.003 - 0.003)	-0.019(-0.019 - -0.018)	-0.025(-0.025 - -0.025)	0.017(0.017 - 0.018)
5	0.021(0.021 - 0.022)	0.010(0.009 - 0.010)	-0.002(-0.002 - -0.002)	-0.013(-0.014 - -0.013)	-0.022(-0.022 - -0.022)	0.021(0.021 - 0.022)
6	0.025(0.025 - 0.025)	0.012(0.011 - 0.012)	-0.002(-0.002 - -0.002)	-0.015(-0.015 - -0.015)	-0.028(-0.029 - -0.028)	0.025(0.025 - 0.025)
7	0.022(0.022 - 0.022)	0.017(0.017 - 0.017)	-0.004(-0.004 - -0.003)	-0.004(-0.020 - -0.019)	-0.025(-0.025 - -0.024)	0.027(0.027 - 0.027)
8	0.029(0.028 - 0.029)	0.014(0.014 - 0.015)	-0.004(-0.004 - -0.004)	-0.010(-0.011 - -0.010)	-0.026(-0.027 - -0.026)	0.026(0.026 - 0.026)
9	0.029(0.028 - 0.029)	0.013(0.012 - 0.013)	-0.007(-0.007 - -0.007)	-0.012(-0.013 - -0.012)	-0.024(-0.024 - -0.023)	0.026(0.026 - 0.027)
10	0.021(0.021 - 0.021)	0.016(0.016 - 0.016)	-0.007(-0.007 - -0.007)	-0.011(-0.011 - -0.010)	-0.020(-0.020 - -0.020)	0.025(0.025 - 0.025)
11	0.023(0.023 - 0.023)	0.008(0.008 - 0.008)	-0.002(-0.002 - -0.002)	-0.018(-0.019 - -0.018)	-0.014(-0.014 - -0.013)	0.019(0.018 - 0.019)
12	0.030(0.030 - 0.031)	0.005(0.005 - 0.006)	-0.003(-0.003 - -0.003)	-0.012(-0.013 - -0.012)	-0.013(-0.013 - -0.012)	0.021(0.020 - 0.021)
13	0.023(0.023 - 0.024)	0.005(0.005 - 0.006)	-0.000(-0.001 - -0.000)	-0.013(-0.013 - -0.012)	-0.026(-0.026 - -0.025)	0.018(0.018 - 0.018)
14	0.022(0.021 - 0.022)	0.015(0.014 - 0.015)	-0.004(-0.004 - -0.004)	-0.011(-0.011 - -0.010)	-0.028(-0.028 - -0.027)	0.024(0.023 - 0.024)
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2	-0.003(-0.003 - -0.003)	-0.003(-0.003 - -0.003)	0.016(0.016 - 0.016)	-0.005(-0.005 - -0.005)	-0.004(-0.004 - -0.004)	-0.014(-0.014 - -0.013)
3	-0.002(-0.003 - -0.002)	0.000(-0.000 - 0.000)	0.021(0.021 - 0.021)	-0.012(-0.012 - -0.012)	-0.005(-0.005 - -0.004)	-0.009(-0.009 - -0.009)
4	-0.003(-0.004 - -0.003)	-0.002(-0.002 - -0.001)	0.018(0.017 - 0.018)	-0.010(-0.010 - -0.010)	-0.005(-0.005 - -0.005)	-0.006(-0.006 - -0.006)
5	-0.003(-0.004 - -0.003)	-0.002(-0.003 - -0.002)	0.011(0.011 - 0.011)	-0.009(-0.009 - -0.008)	0.000(0.000 - 0.001)	-0.006(-0.006 - -0.006)
6	-0.005(-0.006 - -0.005)	-0.004(-0.004 - -0.003)	0.021(0.021 - 0.021)	-0.012(-0.012 - -0.012)	-0.009(-0.009 - -0.009)	-0.004(-0.004 - -0.004)
7	-0.002(-0.003 - -0.002)	-0.006(-0.006 - -0.006)	0.014(0.014 - 0.014)	-0.011(-0.012 - -0.011)	-0.001(-0.002 - -0.001)	-0.005(-0.005 - -0.004)
8	-0.005(-0.005 - -0.004)	-0.007(-0.007 - -0.007)	0.013(0.013 - 0.014)	-0.008(-0.009 - -0.008)	-0.002(-0.002 - -0.001)	-0.009(-0.010 - -0.009)
9	-0.001(-0.001 - -0.000)	-0.004(-0.004 - -0.003)	0.010(0.010 - 0.010)	-0.010(-0.011 - -0.010)	0.001(0.000 - 0.001)	-0.002(-0.003 - -0.002)
10	-0.000(-0.001 - -0.000)	-0.007(-0.007 - -0.006)	0.011(0.011 - 0.011)	-0.013(-0.013 - -0.012)	0.002(0.002 - 0.002)	-0.001(-0.002 - -0.001)
11	-0.005(-0.005 - -0.004)	-0.008(-0.008 - -0.007)	0.019(0.019 - 0.020)	-0.010(-0.010 - -0.010)	-0.013(-0.014 - -0.013)	-0.003(-0.003 - -0.002)
12	-0.010(-0.010 - -0.009)	-0.010(-0.011 - -0.010)	0.018(0.017 - 0.018)	-0.009(-0.009 - -0.009)	-0.016(-0.016 - -0.016)	0.001(0.001 - 0.002)
13	-0.006(-0.006 - -0.005)	-0.004(-0.004 - -0.003)	0.013(0.013 - 0.014)	-0.005(-0.005 - -0.004)	-0.011(-0.011 - -0.010)	-0.006(-0.006 - -0.005)

14	-0.009(-0.010 - -0.009)	-0.004(-0.005 - -0.004)	0.012(0.011 - 0.012)	-0.008(-0.008 - -0.007)	-0.004(-0.005 - -0.004)	-0.006(-0.006 - -0.005)
	Ethnicity: W. Brit.	Ethnicity: Mixed	Ethnicity: Indian	Ethnicity: Pakistani	Ethnicity: Bangladeshi	Ethnicity: Caribbean
2	0.019(0.019 - 0.019)	-0.011(-0.012 - -0.011)	-0.023(-0.024 - -0.023)	-0.023(-0.024 - -0.023)	-0.018(-0.018 - -0.018)	-0.012(-0.012 - -0.012)
3	0.012(0.012 - 0.012)	-0.007(-0.007 - -0.007)	-0.017(-0.017 - -0.017)	-0.015(-0.015 - -0.015)	-0.016(-0.017 - -0.016)	-0.006(-0.006 - -0.005)
4	0.006(0.006 - 0.006)	-0.005(-0.005 - -0.004)	-0.001(-0.002 - -0.001)	-0.011(-0.011 - -0.011)	-0.010(-0.010 - -0.009)	-0.005(-0.005 - -0.005)
5	0.007(0.007 - 0.007)	-0.000(-0.000 - 0.000)	-0.008(-0.008 - -0.007)	-0.011(-0.011 - -0.011)	-0.004(-0.004 - -0.003)	-0.007(-0.008 - -0.007)
6	0.006(0.006 - 0.006)	-0.003(-0.003 - -0.002)	-0.010(-0.011 - -0.010)	-0.009(-0.010 - -0.009)	-0.007(-0.007 - -0.006)	-0.003(-0.004 - -0.003)
7	0.004(0.004 - 0.004)	-0.005(-0.006 - -0.005)	-0.003(-0.003 - -0.003)	-0.011(-0.011 - -0.011)	-0.001(-0.002 - -0.001)	-0.004(-0.004 - -0.003)
8	0.005(0.005 - 0.005)	-0.004(-0.005 - -0.004)	-0.005(-0.005 - -0.004)	-0.005(-0.005 - -0.004)	-0.008(-0.008 - -0.008)	-0.009(-0.010 - -0.009)
9	0.007(0.006 - 0.007)	-0.010(-0.010 - -0.009)	-0.010(-0.010 - -0.009)	-0.006(-0.006 - -0.005)	-0.003(-0.003 - -0.002)	-0.009(-0.010 - -0.009)
10	0.007(0.006 - 0.007)	-0.005(-0.005 - -0.005)	-0.005(-0.005 - -0.004)	-0.015(-0.015 - -0.014)	-0.011(-0.011 - -0.011)	-0.007(-0.007 - -0.007)
11	0.004(0.003 - 0.004)	-0.000(-0.001 - 0.000)	-0.001(-0.002 - -0.001)	-0.006(-0.006 - -0.006)	0.005(0.005 - 0.006)	-0.007(-0.007 - -0.006)
12	0.005(0.005 - 0.005)	-0.001(-0.001 - -0.001)	-0.002(-0.003 - -0.002)	-0.013(-0.013 - -0.013)	-0.007(-0.008 - -0.007)	-0.004(-0.004 - -0.004)
13	0.005(0.005 - 0.005)	-0.004(-0.004 - -0.003)	-0.007(-0.007 - -0.006)	-0.015(-0.016 - -0.015)	-0.010(-0.010 - -0.009)	-0.001(-0.002 - -0.001)
14	0.007(0.006 - 0.007)	-0.008(-0.008 - -0.007)	-0.006(-0.006 - -0.005)	-0.011(-0.011 - -0.010)	-0.002(-0.003 - -0.002)	-0.005(-0.006 - -0.005)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2	-0.022(-0.022 - -0.022)	-0.026(-0.027 - -0.026)	0.023(0.023 - 0.023)	0.001(0.001 - 0.001)	0.000(-0.000 - 0.000)	0.004(0.004 - 0.004)
3	-0.018(-0.018 - -0.017)	-0.017(-0.017 - -0.017)	0.015(0.015 - 0.015)	0.004(0.004 - 0.005)	0.003(0.003 - 0.004)	-0.001(-0.001 - -0.000)
4	-0.011(-0.011 - -0.011)	-0.009(-0.009 - -0.008)	0.013(0.013 - 0.013)	-0.002(-0.002 - -0.001)	-0.002(-0.002 - -0.001)	-0.002(-0.002 - -0.002)
5	-0.013(-0.013 - -0.012)	-0.012(-0.012 - -0.011)	0.011(0.011 - 0.011)	-0.000(-0.000 - 0.000)	-0.001(-0.002 - -0.001)	-0.001(-0.002 - -0.001)
6	-0.014(-0.015 - -0.014)	-0.006(-0.006 - -0.006)	0.008(0.007 - 0.008)	-0.001(-0.002 - -0.001)	-0.004(-0.004 - -0.003)	-0.005(-0.005 - -0.005)
7	-0.011(-0.011 - -0.011)	-0.003(-0.004 - -0.003)	0.004(0.004 - 0.004)	0.001(0.001 - 0.001)	-0.002(-0.003 - -0.002)	-0.002(-0.002 - -0.002)
8	-0.010(-0.010 - -0.009)	-0.006(-0.006 - -0.006)	0.009(0.009 - 0.009)	-0.008(-0.009 - -0.008)	-0.004(-0.004 - -0.004)	-0.007(-0.008 - -0.007)
9	-0.001(-0.002 - -0.001)	-0.012(-0.013 - -0.012)	0.007(0.007 - 0.007)	-0.001(-0.002 - -0.001)	-0.008(-0.008 - -0.007)	0.000(-0.000 - 0.001)
10	-0.006(-0.006 - -0.005)	-0.009(-0.009 - -0.009)	0.008(0.008 - 0.008)	-0.004(-0.004 - -0.003)	-0.004(-0.004 - -0.003)	-0.009(-0.009 - -0.008)
11	-0.011(-0.011 - -0.010)	-0.007(-0.008 - -0.007)	0.008(0.008 - 0.008)	-0.003(-0.003 - -0.002)	-0.005(-0.005 - -0.004)	-0.008(-0.009 - -0.008)
12	-0.009(-0.010 - -0.009)	-0.008(-0.008 - -0.007)	0.006(0.006 - 0.007)	-0.004(-0.004 - -0.003)	-0.003(-0.004 - -0.003)	-0.001(-0.001 - -0.000)
13	-0.009(-0.009 - -0.009)	-0.002(-0.002 - -0.002)	0.004(0.004 - 0.004)	-0.002(-0.003 - -0.002)	-0.002(-0.002 - -0.001)	0.000(-0.000 - 0.001)
14	-0.012(-0.013 - -0.012)	-0.011(-0.011 - -0.010)	0.007(0.007 - 0.007)	-0.007(-0.007 - -0.006)	0.001(0.000 - 0.001)	-0.003(-0.004 - -0.003)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2	-0.055(-0.055 - -0.055)	0.034(0.034 - 0.034)	0.014(0.013 - 0.014)	-0.049(-0.049 - -0.049)	0.004(0.004 - 0.004)	-0.005(-0.005 - -0.005)
3	-0.041(-0.041 - -0.041)	0.024(0.023 - 0.024)	0.003(0.002 - 0.003)	-0.028(-0.028 - -0.028)	0.020(0.020 - 0.020)	-0.001(-0.001 - -0.000)
4	-0.031(-0.031 - -0.031)	0.017(0.017 - 0.017)	0.007(0.007 - 0.007)	-0.027(-0.027 - -0.027)	0.014(0.014 - 0.014)	-0.009(-0.010 - -0.009)
5	-0.031(-0.031 - -0.031)	0.017(0.017 - 0.017)	-0.000(-0.000 - 0.000)	-0.019(-0.019 - -0.018)	0.015(0.015 - 0.016)	-0.008(-0.009 - -0.008)
6	-0.015(-0.015 - -0.015)	0.019(0.019 - 0.019)	0.004(0.004 - 0.004)	-0.027(-0.027 - -0.026)	0.018(0.017 - 0.018)	-0.013(-0.013 - -0.013)
7	-0.017(-0.017 - -0.016)	0.023(0.023 - 0.023)	-0.003(-0.003 - -0.002)	-0.023(-0.024 - -0.023)	0.015(0.015 - 0.015)	-0.009(-0.010 - -0.009)
8	-0.020(-0.020 - -0.019)	0.025(0.024 - 0.025)	-0.002(-0.002 - -0.001)	-0.027(-0.027 - -0.027)	0.013(0.013 - 0.014)	-0.014(-0.014 - -0.013)
9	-0.023(-0.024 - -0.023)	0.026(0.026 - 0.027)	-0.002(-0.002 - -0.001)	-0.030(-0.030 - -0.030)	0.015(0.014 - 0.015)	-0.008(-0.008 - -0.007)
10	-0.020(-0.021 - -0.020)	0.023(0.022 - 0.023)	-0.005(-0.005 - -0.005)	-0.022(-0.023 - -0.022)	0.009(0.009 - 0.009)	-0.012(-0.013 - -0.012)
11	-0.021(-0.022 - -0.021)	0.025(0.025 - 0.025)	0.002(0.002 - 0.003)	-0.035(-0.036 - -0.035)	0.009(0.009 - 0.010)	-0.018(-0.019 - -0.018)
12	-0.021(-0.022 - -0.021)	0.026(0.026 - 0.027)	-0.004(-0.005 - -0.004)	-0.030(-0.030 - -0.030)	0.004(0.004 - 0.004)	-0.017(-0.018 - -0.017)
13	-0.023(-0.023 - -0.023)	0.021(0.021 - 0.021)	-0.004(-0.004 - -0.003)	-0.025(-0.025 - -0.024)	-0.003(-0.003 - -0.003)	-0.015(-0.015 - -0.015)
14	-0.026(-0.027 - -0.026)	0.024(0.024 - 0.024)	-0.005(-0.005 - -0.005)	-0.027(-0.028 - -0.027)	0.000(-0.000 - 0.000)	-0.014(-0.015 - -0.014)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2	0.026(0.026 - 0.026)	0.006(0.005 - 0.006)	-0.036(-0.036 - -0.036)
3	0.016(0.016 - 0.017)	0.002(0.002 - 0.002)	-0.036(-0.036 - -0.036)
4	0.017(0.016 - 0.017)	-0.001(-0.001 - -0.000)	-0.025(-0.025 - -0.025)
5	0.017(0.016 - 0.017)	0.001(0.001 - 0.001)	-0.028(-0.028 - -0.028)
6	0.019(0.018 - 0.019)	-0.002(-0.002 - -0.001)	-0.027(-0.028 - -0.027)
7	0.022(0.022 - 0.023)	-0.002(-0.003 - -0.002)	-0.030(-0.030 - -0.030)
8	0.025(0.025 - 0.025)	-0.005(-0.006 - -0.005)	-0.028(-0.028 - -0.027)
9	0.021(0.021 - 0.022)	-0.009(-0.009 - -0.009)	-0.024(-0.024 - -0.024)
10	0.023(0.023 - 0.023)	-0.007(-0.008 - -0.007)	-0.021(-0.021 - -0.021)
11	0.026(0.026 - 0.026)	-0.008(-0.008 - -0.008)	-0.022(-0.023 - -0.022)
12	0.029(0.029 - 0.030)	-0.009(-0.009 - -0.009)	-0.022(-0.022 - -0.021)
13	0.028(0.027 - 0.028)	-0.002(-0.003 - -0.002)	-0.021(-0.021 - -0.021)
14	0.027(0.026 - 0.027)	-0.006(-0.006 - -0.006)	-0.020(-0.021 - -0.020)

Table 4: Overall weighted sample covariate category CV_cs and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2	<i>0.009(0.005 - 0.012)</i>	<i>0.008(0.005 - 0.012)</i>	<i>0.031(0.027 - 0.035)</i>	<i>0.011(0.009 - 0.012)</i>	<i>0.012(0.010 - 0.013)</i>	<i>0.023(0.020 - 0.026)</i>
3	<i>0.006(0.002 - 0.009)</i>	<i>0.006(0.002 - 0.009)</i>	<i>0.023(0.019 - 0.027)</i>	<i>0.007(0.006 - 0.008)</i>	<i>0.010(0.007 - 0.013)</i>	<i>0.012(0.009 - 0.015)</i>
4	<i>0.004(0.001 - 0.007)</i>	<i>0.004(0.001 - 0.007)</i>	<i>0.018(0.014 - 0.022)</i>	<i>0.006(0.004 - 0.007)</i>	<i>0.007(0.005 - 0.010)</i>	<i>0.013(0.010 - 0.015)</i>
5	<i>0.003(0.000 - 0.006)</i>	<i>0.003(0.000 - 0.006)</i>	<i>0.019(0.015 - 0.022)</i>	<i>0.006(0.004 - 0.007)</i>	<i>0.007(0.005 - 0.009)</i>	<i>0.013(0.010 - 0.016)</i>
6	<i>0.002(-0.002 - 0.006)</i>	<i>0.002(-0.002 - 0.006)</i>	<i>0.021(0.017 - 0.025)</i>	<i>0.008(0.005 - 0.011)</i>	<i>0.009(0.006 - 0.011)</i>	<i>0.015(0.012 - 0.019)</i>
7	<i>0.005(0.002 - 0.008)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.014(0.010 - 0.018)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.005(0.004 - 0.006)</i>	<i>0.011(0.008 - 0.015)</i>
8	<i>0.003(-0.001 - 0.006)</i>	<i>0.003(-0.001 - 0.006)</i>	<i>0.019(0.015 - 0.023)</i>	<i>0.005(0.004 - 0.006)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.011(0.008 - 0.013)</i>
9	<i>0.005(0.001 - 0.008)</i>	<i>0.004(0.001 - 0.008)</i>	<i>0.021(0.017 - 0.026)</i>	<i>0.005(0.004 - 0.007)</i>	<i>0.006(0.005 - 0.008)</i>	<i>0.015(0.011 - 0.018)</i>
10	<i>0.007(0.004 - 0.010)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.018(0.014 - 0.022)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.013(0.010 - 0.016)</i>
11	<i>0.006(0.003 - 0.010)</i>	<i>0.006(0.002 - 0.009)</i>	<i>0.017(0.012 - 0.021)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.007(0.004 - 0.010)</i>	<i>0.010(0.006 - 0.013)</i>
12	<i>0.011(0.007 - 0.015)</i>	<i>0.010(0.007 - 0.014)</i>	<i>0.020(0.016 - 0.025)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.007(0.004 - 0.010)</i>	<i>0.010(0.007 - 0.013)</i>
13	<i>0.007(0.003 - 0.010)</i>	<i>0.006(0.003 - 0.010)</i>	<i>0.019(0.014 - 0.023)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.007(0.004 - 0.011)</i>	<i>0.010(0.007 - 0.014)</i>
14	<i>0.007(0.003 - 0.010)</i>	<i>0.007(0.003 - 0.010)</i>	<i>0.014(0.009 - 0.018)</i>	<i>0.004(0.001 - 0.007)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.008(0.005 - 0.012)</i>
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2	<i>0.013(0.010 - 0.016)</i>	<i>0.004(0.002 - 0.007)</i>	<i>0.004(0.001 - 0.007)</i>	<i>0.004(-0.001 - 0.008)</i>	<i>0.004(-0.000 - 0.008)</i>	<i>0.003(-0.000 - 0.006)</i>
3	<i>0.012(0.009 - 0.015)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.004(0.002 - 0.007)</i>	<i>0.004(-0.000 - 0.008)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.002(-0.001 - 0.005)</i>
4	<i>0.007(0.004 - 0.009)</i>	<i>0.004(0.002 - 0.007)</i>	<i>0.004(0.002 - 0.007)</i>	<i>0.006(0.002 - 0.010)</i>	<i>0.003(-0.001 - 0.007)</i>	<i>0.002(-0.000 - 0.005)</i>
5	<i>0.008(0.006 - 0.011)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.004(0.001 - 0.006)</i>	<i>0.002(-0.002 - 0.006)</i>	<i>0.001(-0.006 - 0.008)</i>	<i>0.003(0.001 - 0.005)</i>
6	<i>0.011(0.008 - 0.014)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.002(-0.003 - 0.008)</i>	<i>0.002(-0.004 - 0.007)</i>	<i>0.004(0.001 - 0.007)</i>
7	<i>0.007(0.005 - 0.010)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.005(0.003 - 0.008)</i>	<i>0.006(0.002 - 0.011)</i>	<i>0.002(-0.002 - 0.007)</i>	<i>0.004(0.002 - 0.006)</i>
8	<i>0.014(0.011 - 0.016)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.002(-0.004 - 0.007)</i>	<i>0.001(-0.005 - 0.007)</i>	<i>0.001(-0.003 - 0.004)</i>
9	<i>0.013(0.010 - 0.016)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.004(0.000 - 0.007)</i>	<i>0.002(-0.005 - 0.008)</i>	<i>0.001(-0.009 - 0.010)</i>	<i>0.003(0.000 - 0.005)</i>
10	<i>0.009(0.006 - 0.011)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.004(0.001 - 0.006)</i>	<i>0.001(-0.006 - 0.008)</i>	<i>0.002(-0.003 - 0.007)</i>	<i>0.003(0.000 - 0.005)</i>
11	<i>0.011(0.008 - 0.015)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.003(0.000 - 0.006)</i>	<i>0.005(0.000 - 0.010)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.001(-0.003 - 0.004)</i>
12	<i>0.017(0.014 - 0.021)</i>	<i>0.010(0.007 - 0.013)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.002(-0.003 - 0.006)</i>	<i>0.007(0.003 - 0.011)</i>	<i>0.003(0.000 - 0.006)</i>
13	<i>0.012(0.009 - 0.016)</i>	<i>0.008(0.005 - 0.011)</i>	<i>0.003(0.000 - 0.007)</i>	<i>0.001(-0.005 - 0.008)</i>	<i>0.003(-0.003 - 0.008)</i>	<i>0.003(0.000 - 0.006)</i>
14	<i>0.010(0.007 - 0.013)</i>	<i>0.004(0.001 - 0.006)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.002(-0.002 - 0.006)</i>	<i>0.007(0.002 - 0.011)</i>	<i>0.003(-0.000 - 0.005)</i>
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2	<i>0.002(-0.002 - 0.006)</i>	<i>0.004(-0.000 - 0.008)</i>	<i>0.012(0.008 - 0.015)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.013(0.009 - 0.017)</i>	<i>0.003(-0.000 - 0.006)</i>
3	<i>0.001(-0.003 - 0.006)</i>	<i>0.006(0.002 - 0.009)</i>	<i>0.017(0.013 - 0.020)</i>	<i>0.009(0.006 - 0.012)</i>	<i>0.013(0.009 - 0.017)</i>	<i>0.004(0.001 - 0.007)</i>
4	<i>0.002(-0.002 - 0.005)</i>	<i>0.004(0.001 - 0.008)</i>	<i>0.011(0.007 - 0.014)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.008(0.004 - 0.011)</i>	<i>0.002(-0.001 - 0.005)</i>
5	<i>0.002(-0.001 - 0.005)</i>	<i>0.003(-0.000 - 0.006)</i>	<i>0.008(0.005 - 0.010)</i>	<i>0.004(0.002 - 0.007)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.002(-0.002 - 0.005)</i>
6	<i>0.002(-0.002 - 0.006)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.015(0.012 - 0.019)</i>	<i>0.009(0.006 - 0.011)</i>	<i>0.016(0.012 - 0.020)</i>	<i>0.004(0.001 - 0.007)</i>
7	<i>0.002(-0.001 - 0.005)</i>	<i>0.002(-0.001 - 0.005)</i>	<i>0.009(0.006 - 0.012)</i>	<i>0.005(0.003 - 0.008)</i>	<i>0.009(0.005 - 0.012)</i>	<i>0.003(-0.001 - 0.006)</i>
8	<i>0.000(-0.011 - 0.012)</i>	<i>0.001(-0.006 - 0.008)</i>	<i>0.008(0.005 - 0.011)</i>	<i>0.004(0.003 - 0.006)</i>	<i>0.009(0.006 - 0.013)</i>	<i>0.003(-0.001 - 0.007)</i>
9	<i>0.002(-0.002 - 0.006)</i>	<i>0.003(-0.001 - 0.007)</i>	<i>0.005(0.002 - 0.009)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.006(0.002 - 0.009)</i>	<i>0.004(-0.000 - 0.009)</i>
10	<i>0.003(-0.000 - 0.007)</i>	<i>0.001(-0.005 - 0.007)</i>	<i>0.008(0.005 - 0.011)</i>	<i>0.008(0.004 - 0.011)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.005(0.001 - 0.008)</i>
11	<i>0.002(-0.002 - 0.006)</i>	<i>0.001(-0.005 - 0.007)</i>	<i>0.013(0.009 - 0.016)</i>	<i>0.007(0.005 - 0.010)</i>	<i>0.013(0.009 - 0.017)</i>	<i>0.003(0.001 - 0.006)</i>
12	<i>0.003(-0.001 - 0.008)</i>	<i>0.005(-0.000 - 0.009)</i>	<i>0.012(0.009 - 0.016)</i>	<i>0.008(0.006 - 0.011)</i>	<i>0.015(0.011 - 0.020)</i>	<i>0.006(0.002 - 0.010)</i>
13	<i>0.002(-0.003 - 0.006)</i>	<i>0.002(-0.004 - 0.007)</i>	<i>0.008(0.004 - 0.011)</i>	<i>0.005(0.002 - 0.007)</i>	<i>0.011(0.007 - 0.015)</i>	<i>0.003(-0.001 - 0.007)</i>

14	0.002(-0.002 - 0.007) Ethnicity: W. Brit.	0.002(-0.002 - 0.006) Ethnicity: Mixed	0.007(0.004 - 0.010) Ethnicity: Indian	0.005(0.002 - 0.008) Ethnicity: Pakistani	0.007(0.003 - 0.012) Ethnicity: Bangladeshi	0.002(-0.002 - 0.007) Ethnicity: Caribbean
2	0.015(0.012 - 0.017)	0.004(-0.001 - 0.009)	0.015(0.010 - 0.020)	0.012(0.007 - 0.017)	0.009(0.004 - 0.014)	0.006(0.001 - 0.011)
3	0.012(0.009 - 0.014)	0.003(-0.003 - 0.008)	0.012(0.007 - 0.017)	0.007(0.002 - 0.011)	0.009(0.004 - 0.014)	0.003(-0.002 - 0.008)
4	0.005(0.003 - 0.007)	0.001(-0.005 - 0.008)	0.001(-0.004 - 0.007)	0.005(0.000 - 0.009)	0.004(-0.001 - 0.009)	0.003(-0.002 - 0.008)
5	0.006(0.004 - 0.008)	0.003(-0.001 - 0.007)	0.004(-0.000 - 0.008)	0.005(0.001 - 0.009)	0.001(-0.005 - 0.007)	0.004(-0.000 - 0.008)
6	0.006(0.003 - 0.008)	0.001(-0.006 - 0.008)	0.008(0.003 - 0.013)	0.003(-0.002 - 0.008)	0.003(-0.003 - 0.009)	0.001(-0.005 - 0.008)
7	0.003(0.001 - 0.005)	0.001(-0.005 - 0.008)	0.001(-0.007 - 0.009)	0.004(-0.001 - 0.009)	0.002(-0.003 - 0.007)	0.002(-0.003 - 0.008)
8	0.004(0.001 - 0.006)	0.001(-0.010 - 0.011)	0.002(-0.003 - 0.007)	0.002(-0.003 - 0.007)	0.003(-0.002 - 0.007)	0.006(0.001 - 0.011)
9	0.005(0.003 - 0.008)	0.005(-0.001 - 0.010)	0.006(0.001 - 0.011)	0.001(-0.006 - 0.008)	0.001(-0.005 - 0.008)	0.007(0.001 - 0.012)
10	0.006(0.004 - 0.008)	0.002(-0.004 - 0.008)	0.002(-0.003 - 0.007)	0.006(0.002 - 0.011)	0.006(0.000 - 0.011)	0.004(-0.000 - 0.009)
11	0.005(0.003 - 0.006)	0.002(-0.004 - 0.007)	0.002(-0.004 - 0.007)	0.001(-0.006 - 0.008)	0.007(0.005 - 0.009)	0.004(-0.002 - 0.009)
12	0.005(0.002 - 0.007)	0.002(-0.005 - 0.008)	0.001(-0.009 - 0.011)	0.006(0.001 - 0.012)	0.002(-0.004 - 0.008)	0.003(-0.003 - 0.009)
13	0.005(0.003 - 0.008)	0.001(-0.009 - 0.011)	0.004(-0.002 - 0.010)	0.009(0.003 - 0.015)	0.006(0.000 - 0.011)	0.001(-0.011 - 0.013)
14	0.006(0.004 - 0.009)	0.002(-0.004 - 0.008)	0.002(-0.003 - 0.008)	0.004(-0.001 - 0.010)	0.001(-0.011 - 0.012)	0.003(-0.003 - 0.009)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2	0.010(0.005 - 0.014)	0.010(0.006 - 0.014)	0.019(0.017 - 0.022)	0.006(0.002 - 0.009)	0.004(0.001 - 0.007)	0.005(0.001 - 0.009)
3	0.009(0.004 - 0.014)	0.011(0.006 - 0.015)	0.013(0.011 - 0.016)	0.006(0.002 - 0.010)	0.004(0.000 - 0.008)	0.002(-0.000 - 0.005)
4	0.005(0.001 - 0.010)	0.004(0.000 - 0.008)	0.012(0.010 - 0.014)	0.003(0.001 - 0.005)	0.002(-0.001 - 0.005)	0.002(-0.000 - 0.005)
5	0.007(0.002 - 0.011)	0.008(0.004 - 0.012)	0.011(0.009 - 0.013)	0.004(0.001 - 0.006)	0.002(-0.001 - 0.005)	0.002(-0.000 - 0.005)
6	0.008(0.003 - 0.014)	0.004(-0.001 - 0.009)	0.006(0.003 - 0.008)	0.002(-0.003 - 0.007)	0.002(-0.003 - 0.008)	0.003(-0.002 - 0.008)
7	0.006(0.001 - 0.011)	0.001(-0.006 - 0.008)	0.005(0.003 - 0.007)	0.004(-0.000 - 0.008)	0.001(-0.003 - 0.006)	0.002(-0.002 - 0.006)
8	0.003(-0.002 - 0.008)	0.003(-0.002 - 0.008)	0.008(0.005 - 0.010)	0.006(0.001 - 0.010)	0.002(-0.003 - 0.006)	0.005(0.000 - 0.009)
9	0.003(-0.001 - 0.008)	0.008(0.003 - 0.013)	0.007(0.005 - 0.009)	0.002(-0.001 - 0.006)	0.004(-0.000 - 0.009)	0.002(-0.002 - 0.006)
10	0.002(-0.004 - 0.007)	0.007(0.002 - 0.011)	0.007(0.005 - 0.009)	0.002(-0.001 - 0.006)	0.002(-0.002 - 0.007)	0.006(0.001 - 0.010)
11	0.005(-0.001 - 0.010)	0.005(0.000 - 0.010)	0.006(0.004 - 0.009)	0.002(-0.002 - 0.007)	0.002(-0.003 - 0.007)	0.004(-0.001 - 0.008)
12	0.005(-0.001 - 0.010)	0.005(0.000 - 0.011)	0.005(0.003 - 0.007)	0.002(-0.003 - 0.007)	0.001(-0.005 - 0.008)	0.003(-0.002 - 0.008)
13	0.005(-0.001 - 0.011)	0.001(-0.004 - 0.007)	0.005(0.003 - 0.006)	0.002(-0.002 - 0.006)	0.002(-0.004 - 0.007)	0.004(-0.001 - 0.008)
14	0.006(0.001 - 0.012)	0.008(0.003 - 0.013)	0.006(0.004 - 0.009)	0.004(0.000 - 0.009)	0.004(-0.000 - 0.008)	0.002(-0.001 - 0.006)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2	0.042(0.038 - 0.047)	0.009(0.006 - 0.012)	0.013(0.010 - 0.016)	0.020(0.016 - 0.024)	0.004(0.002 - 0.007)	0.009(0.005 - 0.013)
3	0.031(0.026 - 0.035)	0.006(0.003 - 0.009)	0.005(0.002 - 0.008)	0.010(0.007 - 0.014)	0.014(0.010 - 0.017)	0.009(0.005 - 0.013)
4	0.026(0.022 - 0.030)	0.004(0.002 - 0.007)	0.008(0.005 - 0.010)	0.012(0.009 - 0.016)	0.010(0.006 - 0.013)	0.002(-0.001 - 0.005)
5	0.026(0.021 - 0.030)	0.003(0.000 - 0.006)	0.004(0.001 - 0.006)	0.007(0.003 - 0.010)	0.009(0.006 - 0.012)	0.002(-0.000 - 0.004)
6	0.012(0.007 - 0.017)	0.003(0.001 - 0.005)	0.008(0.004 - 0.011)	0.010(0.006 - 0.014)	0.010(0.006 - 0.014)	0.002(-0.002 - 0.006)
7	0.015(0.010 - 0.019)	0.007(0.004 - 0.010)	0.005(0.003 - 0.007)	0.011(0.007 - 0.015)	0.008(0.005 - 0.011)	0.002(-0.001 - 0.005)
8	0.015(0.011 - 0.020)	0.007(0.004 - 0.010)	0.006(0.003 - 0.008)	0.012(0.008 - 0.016)	0.007(0.004 - 0.010)	0.003(-0.001 - 0.007)
9	0.019(0.013 - 0.024)	0.009(0.006 - 0.012)	0.008(0.006 - 0.011)	0.017(0.013 - 0.021)	0.009(0.006 - 0.013)	0.003(-0.002 - 0.007)
10	0.014(0.009 - 0.019)	0.006(0.003 - 0.009)	0.004(0.002 - 0.006)	0.009(0.005 - 0.013)	0.003(0.001 - 0.006)	0.004(-0.001 - 0.008)
11	0.016(0.010 - 0.021)	0.011(0.007 - 0.014)	0.008(0.006 - 0.011)	0.019(0.014 - 0.023)	0.009(0.006 - 0.012)	0.007(0.003 - 0.012)
12	0.013(0.007 - 0.019)	0.011(0.007 - 0.014)	0.005(0.003 - 0.007)	0.013(0.009 - 0.018)	0.006(0.004 - 0.008)	0.009(0.003 - 0.014)
13	0.016(0.010 - 0.022)	0.009(0.005 - 0.013)	0.004(0.002 - 0.006)	0.011(0.007 - 0.015)	0.006(0.003 - 0.009)	0.008(0.003 - 0.013)
14	0.017(0.011 - 0.022)	0.008(0.005 - 0.011)	0.005(0.003 - 0.006)	0.011(0.007 - 0.015)	0.004(0.001 - 0.007)	0.006(0.001 - 0.011)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2	0.006(0.004 - 0.007)	0.014(0.010 - 0.017)	0.018(0.014 - 0.022)
3	0.006(0.004 - 0.008)	0.010(0.007 - 0.013)	0.021(0.017 - 0.025)
4	0.006(0.003 - 0.008)	0.005(0.003 - 0.008)	0.014(0.011 - 0.018)
5	0.005(0.003 - 0.007)	0.008(0.006 - 0.011)	0.015(0.012 - 0.019)
6	0.005(0.003 - 0.007)	0.006(0.003 - 0.010)	0.013(0.009 - 0.017)
7	0.008(0.005 - 0.011)	0.008(0.005 - 0.011)	0.017(0.013 - 0.021)
8	0.009(0.006 - 0.012)	0.006(0.003 - 0.008)	0.014(0.011 - 0.018)
9	0.005(0.002 - 0.008)	0.003(0.001 - 0.006)	0.012(0.008 - 0.016)
10	0.007(0.004 - 0.011)	0.004(0.001 - 0.007)	0.009(0.006 - 0.012)
11	0.012(0.009 - 0.016)	0.005(0.003 - 0.007)	0.014(0.010 - 0.018)
12	0.014(0.010 - 0.017)	0.004(0.003 - 0.006)	0.012(0.008 - 0.016)
13	0.013(0.010 - 0.017)	0.004(0.002 - 0.007)	0.010(0.006 - 0.014)
14	0.010(0.007 - 0.014)	0.004(0.001 - 0.007)	0.008(0.005 - 0.012)

Table 5: Overall unweighted sample covariate category CV_{us} and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2	-0.015(-0.016 - -0.015)	0.014(0.014 - 0.014)	-0.070(-0.071 - -0.070)	-0.003(-0.004 - -0.003)	0.008(0.008 - 0.008)	0.027(0.027 - 0.027)
3	-0.010(-0.011 - -0.010)	0.009(0.009 - 0.009)	-0.052(-0.052 - -0.052)	-0.002(-0.003 - -0.002)	0.007(0.007 - 0.007)	0.012(0.012 - 0.013)
4	-0.006(-0.006 - -0.006)	0.005(0.005 - 0.005)	-0.041(-0.041 - -0.040)	-0.004(-0.004 - -0.004)	0.006(0.005 - 0.006)	0.013(0.013 - 0.013)
5	-0.004(-0.004 - -0.004)	0.004(0.004 - 0.004)	-0.040(-0.040 - -0.040)	-0.003(-0.004 - -0.003)	0.002(0.001 - 0.002)	0.011(0.011 - 0.011)
6	-0.004(-0.004 - -0.004)	0.003(0.003 - 0.003)	-0.049(-0.049 - -0.049)	-0.006(-0.007 - -0.006)	0.005(0.005 - 0.006)	0.013(0.013 - 0.014)
7	-0.009(-0.009 - -0.008)	0.008(0.008 - 0.008)	-0.052(-0.052 - -0.052)	-0.006(-0.006 - -0.006)	-0.000(-0.000 - 0.000)	0.013(0.013 - 0.014)
8	-0.004(-0.004 - -0.004)	0.003(0.003 - 0.004)	-0.047(-0.047 - -0.047)	-0.009(-0.009 - -0.009)	-0.003(-0.003 - -0.003)	0.012(0.012 - 0.012)
9	-0.007(-0.007 - -0.007)	0.006(0.006 - 0.006)	-0.047(-0.047 - -0.047)	-0.014(-0.015 - -0.014)	-0.006(-0.006 - -0.005)	0.017(0.017 - 0.017)
10	-0.005(-0.005 - -0.005)	0.005(0.004 - 0.005)	-0.040(-0.040 - -0.040)	-0.012(-0.012 - -0.012)	-0.002(-0.002 - -0.001)	0.012(0.012 - 0.012)
11	-0.006(-0.006 - -0.005)	0.005(0.005 - 0.005)	-0.034(-0.034 - -0.034)	-0.012(-0.012 - -0.011)	-0.002(-0.002 - -0.002)	0.012(0.011 - 0.012)
12	-0.010(-0.010 - -0.010)	0.009(0.009 - 0.009)	-0.035(-0.035 - -0.035)	-0.009(-0.009 - -0.009)	-0.004(-0.004 - -0.003)	0.012(0.012 - 0.013)
13	-0.005(-0.005 - -0.005)	0.005(0.004 - 0.005)	-0.040(-0.040 - -0.040)	-0.009(-0.009 - -0.008)	0.001(0.001 - 0.002)	0.012(0.012 - 0.012)
14	-0.005(-0.006 - -0.005)	0.005(0.005 - 0.005)	-0.037(-0.037 - -0.036)	-0.006(-0.006 - -0.006)	-0.004(-0.004 - -0.004)	0.006(0.006 - 0.007)
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2	0.036(0.036 - 0.037)	0.020(0.020 - 0.021)	0.004(0.004 - 0.004)	-0.029(-0.029 - -0.029)	-0.041(-0.041 - -0.041)	0.037(0.037 - 0.037)
3	0.028(0.028 - 0.028)	0.014(0.014 - 0.014)	0.001(0.001 - 0.001)	-0.021(-0.021 - -0.021)	-0.031(-0.031 - -0.031)	0.028(0.028 - 0.028)
4	0.021(0.021 - 0.021)	0.008(0.008 - 0.008)	0.003(0.003 - 0.003)	-0.018(-0.019 - -0.018)	-0.025(-0.025 - -0.025)	0.019(0.019 - 0.019)
5	0.022(0.022 - 0.022)	0.013(0.012 - 0.013)	-0.001(-0.001 - -0.000)	-0.017(-0.017 - -0.016)	-0.023(-0.023 - -0.023)	0.023(0.023 - 0.024)
6	0.025(0.025 - 0.026)	0.014(0.014 - 0.014)	0.001(0.001 - 0.002)	-0.017(-0.018 - -0.017)	-0.034(-0.034 - -0.034)	0.027(0.027 - 0.027)
7	0.029(0.029 - 0.029)	0.022(0.022 - 0.023)	-0.002(-0.002 - -0.002)	-0.023(-0.023 - -0.022)	-0.033(-0.033 - -0.033)	0.034(0.034 - 0.034)
8	0.032(0.032 - 0.032)	0.020(0.020 - 0.020)	-0.003(-0.003 - -0.003)	-0.016(-0.017 - -0.016)	-0.031(-0.031 - -0.031)	0.033(0.033 - 0.033)
9	0.032(0.031 - 0.032)	0.021(0.021 - 0.021)	-0.006(-0.006 - -0.006)	-0.016(-0.016 - -0.016)	-0.027(-0.027 - -0.027)	0.035(0.034 - 0.035)
10	0.023(0.023 - 0.023)	0.019(0.018 - 0.019)	-0.005(-0.005 - -0.005)	-0.012(-0.012 - -0.012)	-0.021(-0.022 - -0.021)	0.028(0.028 - 0.028)
11	0.023(0.023 - 0.024)	0.011(0.011 - 0.012)	-0.000(-0.001 - -0.000)	-0.019(-0.019 - -0.018)	-0.015(-0.016 - -0.015)	0.023(0.023 - 0.023)
12	0.029(0.029 - 0.029)	0.005(0.005 - 0.006)	0.001(0.001 - 0.001)	-0.012(-0.012 - -0.012)	-0.015(-0.016 - -0.015)	0.020(0.020 - 0.021)
13	0.026(0.026 - 0.026)	0.007(0.007 - 0.007)	0.000(0.000 - 0.001)	-0.015(-0.015 - -0.015)	-0.023(-0.023 - -0.023)	0.020(0.020 - 0.021)
14	0.022(0.021 - 0.022)	0.016(0.015 - 0.016)	-0.004(-0.005 - -0.004)	-0.010(-0.011 - -0.010)	-0.025(-0.025 - -0.025)	0.026(0.026 - 0.026)
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2	-0.001(-0.001 - -0.000)	-0.004(-0.005 - -0.004)	0.012(0.012 - 0.013)	-0.003(-0.003 - -0.002)	-0.003(-0.003 - -0.003)	-0.014(-0.014 - -0.014)
3	-0.003(-0.004 - -0.003)	-0.002(-0.002 - -0.002)	0.006(0.006 - 0.006)	-0.020(-0.020 - -0.020)	-0.010(-0.010 - -0.009)	0.023(0.023 - 0.023)
4	-0.001(-0.001 - -0.001)	-0.004(-0.004 - -0.003)	0.011(0.010 - 0.011)	-0.012(-0.012 - -0.012)	-0.005(-0.005 - -0.004)	0.006(0.006 - 0.006)
5	-0.001(-0.001 - -0.001)	-0.005(-0.005 - -0.004)	0.007(0.007 - 0.007)	-0.012(-0.012 - -0.011)	-0.001(-0.002 - -0.001)	0.006(0.006 - 0.007)
6	-0.004(-0.005 - -0.004)	-0.005(-0.005 - -0.005)	0.011(0.011 - 0.012)	-0.018(-0.019 - -0.018)	-0.008(-0.008 - -0.008)	0.015(0.015 - 0.015)
7	0.001(0.001 - 0.001)	-0.007(-0.007 - -0.007)	0.011(0.011 - 0.011)	-0.007(-0.007 - -0.007)	0.007(0.007 - 0.007)	-0.011(-0.011 - -0.010)
8	-0.004(-0.004 - -0.003)	-0.008(-0.008 - -0.007)	0.008(0.008 - 0.009)	-0.010(-0.010 - -0.009)	0.001(0.001 - 0.001)	-0.000(-0.000 - 0.000)
9	-0.002(-0.003 - -0.002)	-0.010(-0.010 - -0.009)	0.005(0.004 - 0.005)	-0.015(-0.015 - -0.015)	0.002(0.002 - 0.002)	0.009(0.009 - 0.009)
10	-0.003(-0.003 - -0.003)	-0.010(-0.010 - -0.009)	0.009(0.008 - 0.009)	-0.015(-0.015 - -0.015)	0.002(0.002 - 0.003)	0.004(0.003 - 0.004)
11	-0.007(-0.007 - -0.007)	-0.012(-0.012 - -0.011)	0.012(0.012 - 0.012)	-0.012(-0.013 - -0.012)	-0.008(-0.008 - -0.008)	0.006(0.006 - 0.007)
12	-0.013(-0.014 - -0.013)	-0.012(-0.012 - -0.011)	0.017(0.017 - 0.017)	-0.011(-0.012 - -0.011)	-0.007(-0.007 - -0.006)	-0.003(-0.003 - -0.003)
13	-0.006(-0.006 - -0.006)	-0.006(-0.007 - -0.006)	0.011(0.011 - 0.011)	-0.008(-0.008 - -0.008)	-0.003(-0.003 - -0.003)	-0.003(-0.004 - -0.003)

14	-0.009(-0.009 - -0.009)	-0.005(-0.006 - -0.005)	0.008(0.008 - 0.008)	-0.010(-0.010 - -0.010)	0.001(0.001 - 0.002)	-0.001(-0.001 - -0.000)
	Ethnicity: W. Brit.	Ethnicity: Mixed	Ethnicity: Indian	Ethnicity: Pakistani	Ethnicity: Bangladeshi	Ethnicity: Caribbean
2	0.034(0.034 - 0.034)	-0.013(-0.013 - -0.012)	-0.024(-0.024 - -0.024)	-0.022(-0.022 - -0.022)	-0.035(-0.035 - -0.035)	-0.015(-0.015 - -0.015)
3	0.020(0.020 - 0.020)	-0.008(-0.008 - -0.007)	-0.017(-0.017 - -0.016)	-0.016(-0.016 - -0.015)	-0.029(-0.029 - -0.029)	-0.008(-0.009 - -0.008)
4	0.013(0.013 - 0.014)	-0.004(-0.004 - -0.004)	-0.009(-0.009 - -0.008)	-0.016(-0.016 - -0.016)	-0.019(-0.019 - -0.019)	-0.007(-0.008 - -0.007)
5	0.013(0.013 - 0.013)	-0.000(-0.001 - 0.000)	-0.010(-0.010 - -0.010)	-0.017(-0.017 - -0.016)	-0.019(-0.020 - -0.019)	-0.007(-0.008 - -0.007)
6	0.014(0.014 - 0.014)	-0.009(-0.009 - -0.008)	-0.011(-0.011 - -0.010)	-0.016(-0.017 - -0.016)	-0.013(-0.014 - -0.013)	-0.008(-0.008 - -0.008)
7	0.029(0.029 - 0.029)	-0.012(-0.013 - -0.012)	-0.012(-0.012 - -0.012)	-0.017(-0.017 - -0.017)	-0.019(-0.020 - -0.019)	-0.015(-0.016 - -0.015)
8	0.024(0.024 - 0.024)	-0.007(-0.007 - -0.006)	-0.014(-0.014 - -0.013)	-0.020(-0.020 - -0.020)	-0.015(-0.015 - -0.014)	-0.011(-0.011 - -0.010)
9	0.027(0.027 - 0.027)	-0.011(-0.011 - -0.011)	-0.017(-0.017 - -0.017)	-0.023(-0.023 - -0.022)	-0.016(-0.017 - -0.016)	-0.015(-0.016 - -0.015)
10	0.020(0.020 - 0.020)	-0.006(-0.007 - -0.006)	-0.014(-0.014 - -0.014)	-0.021(-0.021 - -0.021)	-0.018(-0.018 - -0.017)	-0.011(-0.011 - -0.011)
11	0.018(0.018 - 0.019)	-0.010(-0.010 - -0.010)	-0.006(-0.006 - -0.006)	-0.028(-0.029 - -0.028)	-0.010(-0.011 - -0.010)	-0.008(-0.008 - -0.007)
12	0.021(0.021 - 0.021)	-0.005(-0.006 - -0.005)	-0.016(-0.016 - -0.016)	-0.030(-0.030 - -0.029)	-0.019(-0.019 - -0.019)	-0.009(-0.010 - -0.009)
13	0.013(0.013 - 0.013)	-0.005(-0.005 - -0.004)	-0.008(-0.009 - -0.008)	-0.013(-0.013 - -0.013)	-0.017(-0.017 - -0.017)	-0.007(-0.007 - -0.007)
14	0.015(0.015 - 0.015)	-0.008(-0.008 - -0.007)	-0.010(-0.010 - -0.009)	-0.014(-0.014 - -0.014)	-0.016(-0.017 - -0.016)	-0.013(-0.013 - -0.013)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2	-0.030(-0.030 - -0.030)	-0.027(-0.027 - -0.027)	0.028(0.028 - 0.028)	0.003(0.003 - 0.003)	0.001(0.001 - 0.002)	0.005(0.005 - 0.005)
3	-0.023(-0.023 - -0.023)	-0.017(-0.017 - -0.017)	0.019(0.019 - 0.019)	0.005(0.004 - 0.005)	0.006(0.005 - 0.006)	0.002(0.001 - 0.002)
4	-0.020(-0.020 - -0.019)	-0.008(-0.008 - -0.008)	0.012(0.012 - 0.013)	-0.000(-0.000 - 0.000)	-0.001(-0.001 - -0.000)	0.000(0.000 - 0.001)
5	-0.015(-0.015 - -0.015)	-0.009(-0.010 - -0.009)	0.014(0.014 - 0.014)	0.001(0.001 - 0.002)	-0.001(-0.001 - -0.000)	-0.000(-0.001 - -0.000)
6	-0.023(-0.023 - -0.023)	-0.009(-0.009 - -0.009)	0.009(0.008 - 0.009)	-0.000(-0.000 - 0.000)	-0.002(-0.002 - -0.002)	-0.003(-0.004 - -0.003)
7	-0.030(-0.030 - -0.029)	-0.032(-0.032 - -0.032)	0.006(0.006 - 0.006)	0.002(0.002 - 0.003)	-0.003(-0.004 - -0.003)	0.002(0.002 - 0.002)
8	-0.032(-0.032 - -0.031)	-0.019(-0.019 - -0.019)	0.009(0.009 - 0.009)	-0.006(-0.007 - -0.006)	-0.002(-0.003 - -0.002)	-0.005(-0.005 - -0.004)
9	-0.023(-0.023 - -0.023)	-0.027(-0.027 - -0.027)	0.008(0.007 - 0.008)	-0.001(-0.002 - -0.001)	-0.007(-0.007 - -0.006)	0.002(0.001 - 0.002)
10	-0.021(-0.021 - -0.020)	-0.014(-0.014 - -0.014)	0.010(0.010 - 0.011)	-0.003(-0.004 - -0.003)	-0.002(-0.002 - -0.002)	-0.006(-0.006 - -0.006)
11	-0.025(-0.026 - -0.025)	-0.010(-0.011 - -0.010)	0.012(0.012 - 0.012)	-0.004(-0.004 - -0.004)	-0.005(-0.006 - -0.005)	-0.003(-0.003 - -0.003)
12	-0.026(-0.026 - -0.026)	-0.012(-0.013 - -0.012)	0.010(0.010 - 0.010)	-0.002(-0.003 - -0.002)	-0.001(-0.001 - -0.001)	-0.002(-0.003 - -0.002)
13	-0.021(-0.022 - -0.021)	-0.007(-0.008 - -0.007)	0.006(0.006 - 0.006)	-0.003(-0.003 - -0.002)	-0.002(-0.003 - -0.002)	-0.001(-0.001 - -0.001)
14	-0.022(-0.022 - -0.021)	-0.009(-0.009 - -0.009)	0.008(0.008 - 0.008)	-0.003(-0.004 - -0.003)	-0.001(-0.001 - -0.000)	-0.004(-0.005 - -0.004)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2	-0.062(-0.062 - -0.062)	0.038(0.038 - 0.038)	0.018(0.018 - 0.019)	-0.054(-0.054 - -0.054)	0.006(0.006 - 0.006)	-0.004(-0.004 - -0.004)
3	-0.049(-0.049 - -0.048)	0.027(0.027 - 0.027)	0.006(0.006 - 0.007)	-0.035(-0.035 - -0.035)	0.021(0.021 - 0.021)	-0.001(-0.002 - -0.001)
4	-0.031(-0.031 - -0.031)	0.019(0.018 - 0.019)	0.006(0.006 - 0.007)	-0.027(-0.027 - -0.027)	0.015(0.015 - 0.016)	-0.007(-0.007 - -0.007)
5	-0.037(-0.038 - -0.037)	0.018(0.018 - 0.019)	-0.001(-0.001 - -0.001)	-0.019(-0.019 - -0.018)	0.016(0.016 - 0.016)	-0.005(-0.005 - -0.004)
6	-0.020(-0.020 - -0.020)	0.020(0.020 - 0.020)	0.003(0.003 - 0.003)	-0.025(-0.026 - -0.025)	0.018(0.017 - 0.018)	-0.011(-0.012 - -0.011)
7	-0.025(-0.026 - -0.025)	0.031(0.031 - 0.032)	0.008(0.007 - 0.008)	-0.041(-0.041 - -0.041)	0.016(0.016 - 0.017)	-0.011(-0.011 - -0.010)
8	-0.022(-0.022 - -0.022)	0.029(0.029 - 0.029)	0.001(0.001 - 0.002)	-0.033(-0.033 - -0.033)	0.014(0.014 - 0.015)	-0.018(-0.018 - -0.017)
9	-0.025(-0.025 - -0.024)	0.034(0.033 - 0.034)	-0.001(-0.001 - -0.000)	-0.037(-0.037 - -0.036)	0.018(0.017 - 0.018)	-0.009(-0.009 - -0.009)
10	-0.030(-0.030 - -0.030)	0.026(0.026 - 0.026)	-0.004(-0.004 - -0.003)	-0.026(-0.026 - -0.026)	0.013(0.013 - 0.013)	-0.014(-0.015 - -0.014)
11	-0.034(-0.034 - -0.034)	0.027(0.027 - 0.028)	0.006(0.006 - 0.006)	-0.040(-0.040 - -0.039)	0.011(0.011 - 0.011)	-0.017(-0.017 - -0.017)
12	-0.037(-0.038 - -0.037)	0.028(0.028 - 0.028)	-0.001(-0.001 - -0.000)	-0.035(-0.035 - -0.035)	0.009(0.009 - 0.009)	-0.016(-0.017 - -0.016)
13	-0.026(-0.026 - -0.026)	0.023(0.023 - 0.024)	0.001(0.001 - 0.002)	-0.033(-0.033 - -0.033)	-0.000(-0.001 - -0.000)	-0.016(-0.017 - -0.016)
14	-0.032(-0.032 - -0.032)	0.024(0.023 - 0.024)	-0.001(-0.001 - -0.001)	-0.030(-0.030 - -0.030)	0.001(0.001 - 0.001)	-0.015(-0.015 - -0.014)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2	0.030(0.030 - 0.031)	0.007(0.007 - 0.007)	-0.041(-0.041 - -0.040)
3	0.019(0.019 - 0.019)	0.002(0.001 - 0.002)	-0.037(-0.037 - -0.037)
4	0.018(0.017 - 0.018)	-0.000(-0.000 - 0.000)	-0.027(-0.027 - -0.026)
5	0.020(0.019 - 0.020)	0.001(0.001 - 0.001)	-0.030(-0.031 - -0.030)
6	0.023(0.023 - 0.023)	0.000(-0.000 - 0.000)	-0.031(-0.031 - -0.031)
7	0.027(0.026 - 0.027)	0.003(0.003 - 0.004)	-0.036(-0.036 - -0.036)
8	0.031(0.030 - 0.031)	-0.002(-0.002 - -0.002)	-0.031(-0.031 - -0.031)
9	0.030(0.030 - 0.031)	-0.009(-0.009 - -0.009)	-0.031(-0.031 - -0.030)
10	0.030(0.030 - 0.030)	-0.004(-0.004 - -0.004)	-0.030(-0.030 - -0.029)
11	0.030(0.030 - 0.030)	-0.005(-0.005 - -0.005)	-0.027(-0.027 - -0.027)
12	0.032(0.032 - 0.032)	-0.005(-0.006 - -0.005)	-0.028(-0.028 - -0.028)
13	0.031(0.031 - 0.032)	-0.002(-0.003 - -0.002)	-0.024(-0.024 - -0.023)
14	0.029(0.029 - 0.029)	-0.001(-0.002 - -0.001)	-0.024(-0.024 - -0.023)

Table 6: Overall unweighted sample covariate category CV_cs and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2	<i>0.010(0.007 - 0.014)</i>	<i>0.010(0.007 - 0.013)</i>	<i>0.033(0.029 - 0.037)</i>	<i>0.012(0.010 - 0.013)</i>	<i>0.013(0.011 - 0.015)</i>	<i>0.022(0.019 - 0.025)</i>
3	<i>0.007(0.004 - 0.010)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.024(0.020 - 0.027)</i>	<i>0.007(0.006 - 0.009)</i>	<i>0.010(0.007 - 0.012)</i>	<i>0.012(0.010 - 0.015)</i>
4	<i>0.005(0.002 - 0.007)</i>	<i>0.005(0.002 - 0.007)</i>	<i>0.019(0.016 - 0.022)</i>	<i>0.006(0.005 - 0.007)</i>	<i>0.008(0.006 - 0.011)</i>	<i>0.012(0.009 - 0.014)</i>
5	<i>0.003(0.001 - 0.006)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.019(0.016 - 0.022)</i>	<i>0.005(0.004 - 0.007)</i>	<i>0.007(0.005 - 0.009)</i>	<i>0.013(0.010 - 0.015)</i>
6	<i>0.003(0.000 - 0.006)</i>	<i>0.003(0.000 - 0.006)</i>	<i>0.022(0.018 - 0.025)</i>	<i>0.007(0.006 - 0.009)</i>	<i>0.009(0.007 - 0.012)</i>	<i>0.014(0.011 - 0.017)</i>
7	<i>0.008(0.005 - 0.010)</i>	<i>0.007(0.005 - 0.010)</i>	<i>0.020(0.017 - 0.024)</i>	<i>0.006(0.005 - 0.007)</i>	<i>0.007(0.005 - 0.009)</i>	<i>0.013(0.011 - 0.016)</i>
8	<i>0.005(0.002 - 0.007)</i>	<i>0.004(0.002 - 0.007)</i>	<i>0.020(0.017 - 0.023)</i>	<i>0.006(0.005 - 0.007)</i>	<i>0.007(0.006 - 0.008)</i>	<i>0.012(0.010 - 0.015)</i>
9	<i>0.007(0.004 - 0.009)</i>	<i>0.006(0.004 - 0.009)</i>	<i>0.020(0.017 - 0.024)</i>	<i>0.007(0.005 - 0.009)</i>	<i>0.007(0.006 - 0.009)</i>	<i>0.016(0.013 - 0.019)</i>
10	<i>0.007(0.004 - 0.009)</i>	<i>0.006(0.004 - 0.009)</i>	<i>0.018(0.014 - 0.021)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.007(0.005 - 0.009)</i>	<i>0.013(0.010 - 0.015)</i>
11	<i>0.007(0.004 - 0.010)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.015(0.011 - 0.018)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.011(0.008 - 0.013)</i>
12	<i>0.011(0.008 - 0.014)</i>	<i>0.010(0.007 - 0.013)</i>	<i>0.018(0.014 - 0.021)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.006(0.004 - 0.009)</i>	<i>0.011(0.008 - 0.014)</i>
13	<i>0.007(0.004 - 0.009)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.019(0.015 - 0.022)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.007(0.005 - 0.010)</i>	<i>0.011(0.008 - 0.014)</i>
14	<i>0.007(0.004 - 0.009)</i>	<i>0.006(0.004 - 0.009)</i>	<i>0.014(0.011 - 0.018)</i>	<i>0.004(0.002 - 0.005)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.008(0.006 - 0.011)</i>
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2	<i>0.013(0.010 - 0.016)</i>	<i>0.004(0.002 - 0.007)</i>	<i>0.003(0.001 - 0.006)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.001(-0.003 - 0.006)</i>	<i>0.002(-0.001 - 0.005)</i>
3	<i>0.011(0.008 - 0.013)</i>	<i>0.006(0.004 - 0.009)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.002(-0.001 - 0.006)</i>	<i>0.003(0.000 - 0.005)</i>
4	<i>0.008(0.006 - 0.011)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.001(-0.002 - 0.005)</i>	<i>0.002(-0.000 - 0.004)</i>
5	<i>0.008(0.006 - 0.011)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.004(0.001 - 0.007)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.002(0.001 - 0.004)</i>
6	<i>0.010(0.007 - 0.012)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.005(0.002 - 0.007)</i>	<i>0.003(-0.001 - 0.007)</i>	<i>0.003(-0.001 - 0.006)</i>	<i>0.004(0.002 - 0.006)</i>
7	<i>0.010(0.007 - 0.012)</i>	<i>0.003(0.002 - 0.005)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.003(0.001 - 0.009)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.003(0.001 - 0.004)</i>
8	<i>0.013(0.011 - 0.016)</i>	<i>0.005(0.003 - 0.006)</i>	<i>0.002(-0.000 - 0.004)</i>	<i>0.002(-0.002 - 0.006)</i>	<i>0.001(-0.006 - 0.007)</i>	<i>0.001(-0.000 - 0.003)</i>
9	<i>0.012(0.010 - 0.015)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.003(0.000 - 0.005)</i>	<i>0.002(-0.002 - 0.006)</i>	<i>0.002(-0.001 - 0.006)</i>	<i>0.002(0.000 - 0.004)</i>
10	<i>0.008(0.006 - 0.011)</i>	<i>0.003(0.002 - 0.005)</i>	<i>0.003(0.001 - 0.006)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.004(0.001 - 0.007)</i>	<i>0.002(-0.000 - 0.004)</i>
11	<i>0.010(0.007 - 0.013)</i>	<i>0.006(0.004 - 0.009)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.004(0.000 - 0.008)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.002(-0.000 - 0.004)</i>
12	<i>0.016(0.013 - 0.018)</i>	<i>0.011(0.009 - 0.014)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.003(0.000 - 0.005)</i>	<i>0.007(0.004 - 0.011)</i>	<i>0.002(0.000 - 0.004)</i>
13	<i>0.013(0.011 - 0.016)</i>	<i>0.009(0.007 - 0.012)</i>	<i>0.003(0.000 - 0.005)</i>	<i>0.002(-0.003 - 0.006)</i>	<i>0.001(-0.008 - 0.009)</i>	<i>0.003(0.001 - 0.005)</i>
14	<i>0.010(0.007 - 0.012)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.002(-0.002 - 0.005)</i>	<i>0.002(-0.002 - 0.006)</i>	<i>0.004(0.002 - 0.006)</i>
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2	<i>0.003(-0.001 - 0.006)</i>	<i>0.004(0.001 - 0.008)</i>	<i>0.010(0.007 - 0.013)</i>	<i>0.005(0.004 - 0.007)</i>	<i>0.012(0.009 - 0.016)</i>	<i>0.002(-0.000 - 0.005)</i>
3	<i>0.002(-0.001 - 0.005)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.013(0.010 - 0.016)</i>	<i>0.014(0.011 - 0.017)</i>	<i>0.019(0.016 - 0.022)</i>
4	<i>0.001(-0.002 - 0.004)</i>	<i>0.003(0.001 - 0.006)</i>	<i>0.007(0.005 - 0.010)</i>	<i>0.005(0.003 - 0.008)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.004(0.001 - 0.007)</i>
5	<i>0.001(-0.001 - 0.003)</i>	<i>0.003(0.000 - 0.005)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.005(0.002 - 0.007)</i>	<i>0.005(0.003 - 0.008)</i>	<i>0.004(0.001 - 0.007)</i>
6	<i>0.003(-0.000 - 0.006)</i>	<i>0.004(0.001 - 0.006)</i>	<i>0.009(0.006 - 0.012)</i>	<i>0.009(0.006 - 0.012)</i>	<i>0.012(0.009 - 0.016)</i>	<i>0.011(0.008 - 0.014)</i>
7	<i>0.002(-0.001 - 0.005)</i>	<i>0.002(-0.001 - 0.005)</i>	<i>0.009(0.006 - 0.011)</i>	<i>0.002(0.001 - 0.004)</i>	<i>0.003(0.000 - 0.006)</i>	<i>0.007(0.004 - 0.010)</i>
8	<i>0.001(-0.003 - 0.005)</i>	<i>0.002(-0.001 - 0.005)</i>	<i>0.007(0.004 - 0.010)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.007(0.004 - 0.010)</i>	<i>0.003(0.001 - 0.005)</i>
9	<i>0.001(-0.002 - 0.005)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.007(0.004 - 0.010)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.007(0.003 - 0.010)</i>
10	<i>0.001(-0.003 - 0.005)</i>	<i>0.001(-0.002 - 0.004)</i>	<i>0.007(0.005 - 0.010)</i>	<i>0.007(0.004 - 0.010)</i>	<i>0.003(0.001 - 0.006)</i>	<i>0.003(0.001 - 0.005)</i>
11	<i>0.001(-0.002 - 0.005)</i>	<i>0.002(-0.001 - 0.005)</i>	<i>0.002(0.000 - 0.010)</i>	<i>0.008(0.005 - 0.009)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.006(0.003 - 0.009)</i>
12	<i>0.007(0.004 - 0.011)</i>	<i>0.003(0.000 - 0.006)</i>	<i>0.012(0.009 - 0.016)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.007(0.004 - 0.011)</i>	<i>0.005(0.002 - 0.008)</i>
13	<i>0.002(-0.001 - 0.006)</i>	<i>0.001(-0.003 - 0.006)</i>	<i>0.007(0.004 - 0.011)</i>	<i>0.003(0.000 - 0.005)</i>	<i>0.005(0.002 - 0.009)</i>	<i>0.004(0.000 - 0.007)</i>

14	0.003(-0.000 - 0.006)	0.001(-0.002 - 0.005)	0.005(0.002 - 0.008)	0.004(0.001 - 0.007)	0.003(-0.001 - 0.006)	0.002(-0.001 - 0.005)
	Ethnicity: W. Brit.	Ethnicity: Mixed	Ethnicity: Indian	Ethnicity: Pakistani	Ethnicity: Bangladeshi	Ethnicity: Caribbean
2	0.019(0.016 - 0.022)	0.004(0.000 - 0.009)	0.013(0.008 - 0.017)	0.007(0.003 - 0.011)	0.011(0.006 - 0.016)	0.009(0.004 - 0.013)
3	0.013(0.010 - 0.015)	0.002(-0.001 - 0.006)	0.008(0.004 - 0.012)	0.005(0.001 - 0.008)	0.009(0.005 - 0.013)	0.004(0.000 - 0.007)
4	0.010(0.008 - 0.012)	0.001(-0.002 - 0.005)	0.004(0.001 - 0.008)	0.007(0.003 - 0.011)	0.006(0.002 - 0.009)	0.005(0.001 - 0.009)
5	0.009(0.007 - 0.011)	0.003(0.000 - 0.006)	0.005(0.001 - 0.008)	0.006(0.003 - 0.010)	0.006(0.002 - 0.009)	0.004(0.001 - 0.008)
6	0.011(0.009 - 0.013)	0.003(-0.001 - 0.007)	0.007(0.003 - 0.011)	0.006(0.002 - 0.010)	0.003(-0.001 - 0.006)	0.005(0.001 - 0.009)
7	0.021(0.019 - 0.024)	0.006(0.002 - 0.009)	0.009(0.005 - 0.012)	0.008(0.004 - 0.011)	0.005(0.002 - 0.008)	0.011(0.007 - 0.015)
8	0.017(0.015 - 0.020)	0.002(0.000 - 0.005)	0.010(0.006 - 0.013)	0.009(0.006 - 0.013)	0.003(0.001 - 0.005)	0.007(0.003 - 0.010)
9	0.020(0.018 - 0.023)	0.005(0.001 - 0.008)	0.012(0.008 - 0.016)	0.011(0.007 - 0.015)	0.003(0.002 - 0.005)	0.011(0.007 - 0.015)
10	0.014(0.012 - 0.017)	0.002(-0.000 - 0.005)	0.010(0.006 - 0.014)	0.009(0.005 - 0.012)	0.004(0.001 - 0.008)	0.007(0.003 - 0.011)
11	0.013(0.010 - 0.015)	0.004(0.000 - 0.009)	0.004(0.001 - 0.008)	0.014(0.010 - 0.018)	0.005(0.001 - 0.008)	0.003(-0.000 - 0.007)
12	0.018(0.016 - 0.021)	0.003(0.000 - 0.005)	0.012(0.008 - 0.016)	0.018(0.013 - 0.022)	0.006(0.002 - 0.009)	0.005(0.001 - 0.009)
13	0.010(0.007 - 0.012)	0.002(-0.002 - 0.006)	0.006(0.002 - 0.010)	0.005(0.000 - 0.009)	0.006(0.001 - 0.010)	0.003(-0.001 - 0.007)
14	0.012(0.009 - 0.014)	0.002(-0.001 - 0.006)	0.006(0.002 - 0.011)	0.005(0.001 - 0.008)	0.005(0.001 - 0.009)	0.007(0.003 - 0.011)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2	0.011(0.007 - 0.016)	0.010(0.006 - 0.014)	0.021(0.019 - 0.024)	0.007(0.004 - 0.010)	0.004(0.002 - 0.007)	0.005(0.002 - 0.008)
3	0.010(0.006 - 0.013)	0.009(0.005 - 0.013)	0.016(0.013 - 0.018)	0.007(0.004 - 0.010)	0.006(0.003 - 0.009)	0.003(0.001 - 0.005)
4	0.010(0.006 - 0.014)	0.004(0.001 - 0.008)	0.012(0.010 - 0.013)	0.004(0.002 - 0.006)	0.003(0.001 - 0.005)	0.002(0.001 - 0.004)
5	0.008(0.004 - 0.011)	0.006(0.003 - 0.009)	0.013(0.012 - 0.015)	0.005(0.003 - 0.007)	0.003(0.001 - 0.004)	0.003(0.002 - 0.004)
6	0.014(0.010 - 0.019)	0.006(0.003 - 0.010)	0.007(0.005 - 0.009)	0.003(-0.000 - 0.006)	0.002(-0.002 - 0.005)	0.002(-0.001 - 0.006)
7	0.013(0.009 - 0.017)	0.019(0.015 - 0.023)	0.007(0.005 - 0.008)	0.005(0.002 - 0.008)	0.002(-0.000 - 0.005)	0.003(0.000 - 0.006)
8	0.017(0.013 - 0.021)	0.012(0.008 - 0.016)	0.007(0.005 - 0.009)	0.004(0.001 - 0.007)	0.002(-0.001 - 0.004)	0.003(0.000 - 0.007)
9	0.010(0.006 - 0.014)	0.019(0.015 - 0.024)	0.006(0.004 - 0.008)	0.002(-0.001 - 0.005)	0.004(0.000 - 0.008)	0.003(-0.000 - 0.006)
10	0.010(0.006 - 0.014)	0.010(0.007 - 0.014)	0.009(0.007 - 0.011)	0.003(0.000 - 0.005)	0.002(-0.000 - 0.004)	0.005(0.001 - 0.008)
11	0.013(0.009 - 0.017)	0.007(0.003 - 0.011)	0.009(0.007 - 0.011)	0.003(0.001 - 0.005)	0.003(-0.000 - 0.006)	0.002(0.000 - 0.004)
12	0.015(0.011 - 0.020)	0.009(0.005 - 0.013)	0.009(0.007 - 0.011)	0.003(0.001 - 0.006)	0.002(-0.000 - 0.005)	0.003(0.001 - 0.005)
13	0.012(0.008 - 0.017)	0.005(0.001 - 0.009)	0.006(0.004 - 0.008)	0.002(0.000 - 0.005)	0.002(-0.001 - 0.005)	0.002(-0.001 - 0.005)
14	0.013(0.008 - 0.018)	0.006(0.002 - 0.010)	0.008(0.006 - 0.011)	0.003(-0.000 - 0.006)	0.003(0.000 - 0.005)	0.003(0.001 - 0.005)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2	0.042(0.037 - 0.046)	0.009(0.006 - 0.012)	0.013(0.010 - 0.016)	0.021(0.017 - 0.024)	0.005(0.002 - 0.007)	0.010(0.006 - 0.013)
3	0.034(0.030 - 0.037)	0.008(0.006 - 0.011)	0.007(0.005 - 0.010)	0.014(0.011 - 0.017)	0.014(0.011 - 0.017)	0.009(0.006 - 0.012)
4	0.025(0.021 - 0.028)	0.005(0.003 - 0.008)	0.007(0.005 - 0.010)	0.012(0.009 - 0.015)	0.010(0.007 - 0.012)	0.003(0.000 - 0.006)
5	0.030(0.026 - 0.033)	0.004(0.002 - 0.006)	0.003(0.001 - 0.005)	0.006(0.003 - 0.009)	0.008(0.006 - 0.010)	0.003(0.001 - 0.005)
6	0.014(0.011 - 0.018)	0.002(0.000 - 0.004)	0.006(0.003 - 0.009)	0.008(0.005 - 0.012)	0.009(0.006 - 0.012)	0.002(-0.000 - 0.004)
7	0.016(0.012 - 0.020)	0.009(0.007 - 0.012)	0.010(0.007 - 0.012)	0.016(0.014 - 0.019)	0.008(0.005 - 0.010)	0.003(0.001 - 0.005)
8	0.012(0.009 - 0.016)	0.007(0.005 - 0.010)	0.006(0.004 - 0.008)	0.011(0.008 - 0.014)	0.006(0.004 - 0.008)	0.005(0.001 - 0.008)
9	0.012(0.008 - 0.016)	0.011(0.008 - 0.013)	0.008(0.006 - 0.010)	0.016(0.013 - 0.019)	0.008(0.006 - 0.011)	0.003(-0.000 - 0.006)
10	0.015(0.012 - 0.019)	0.008(0.005 - 0.010)	0.004(0.003 - 0.005)	0.009(0.006 - 0.011)	0.006(0.004 - 0.008)	0.005(0.002 - 0.008)
11	0.019(0.015 - 0.023)	0.011(0.008 - 0.013)	0.010(0.008 - 0.012)	0.020(0.016 - 0.023)	0.008(0.006 - 0.011)	0.006(0.002 - 0.009)
12	0.022(0.018 - 0.027)	0.012(0.009 - 0.015)	0.006(0.005 - 0.008)	0.015(0.012 - 0.019)	0.007(0.005 - 0.010)	0.007(0.003 - 0.011)
13	0.016(0.012 - 0.021)	0.009(0.006 - 0.012)	0.006(0.004 - 0.008)	0.015(0.012 - 0.019)	0.006(0.004 - 0.007)	0.007(0.003 - 0.011)
14	0.018(0.014 - 0.023)	0.007(0.004 - 0.010)	0.006(0.004 - 0.008)	0.012(0.009 - 0.015)	0.004(0.002 - 0.006)	0.006(0.002 - 0.010)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2	0.005(0.004 - 0.007)	0.014(0.011 - 0.017)	0.019(0.015 - 0.022)
3	0.006(0.005 - 0.007)	0.009(0.007 - 0.011)	0.020(0.017 - 0.023)
4	0.005(0.003 - 0.006)	0.006(0.003 - 0.008)	0.014(0.011 - 0.017)
5	0.005(0.003 - 0.007)	0.008(0.006 - 0.010)	0.015(0.013 - 0.018)
6	0.005(0.003 - 0.008)	0.007(0.004 - 0.010)	0.014(0.011 - 0.018)
7	0.005(0.003 - 0.007)	0.011(0.008 - 0.013)	0.017(0.014 - 0.020)
8	0.008(0.005 - 0.010)	0.008(0.006 - 0.010)	0.013(0.011 - 0.016)
9	0.007(0.004 - 0.009)	0.005(0.003 - 0.007)	0.013(0.010 - 0.016)
10	0.010(0.008 - 0.013)	0.007(0.005 - 0.009)	0.014(0.011 - 0.016)
11	0.011(0.009 - 0.014)	0.005(0.004 - 0.007)	0.014(0.011 - 0.017)
12	0.012(0.010 - 0.015)	0.005(0.003 - 0.006)	0.014(0.011 - 0.017)
13	0.014(0.011 - 0.017)	0.005(0.003 - 0.006)	0.011(0.008 - 0.014)
14	0.010(0.007 - 0.013)	0.005(0.002 - 0.008)	0.009(0.006 - 0.012)

Table 7: Overall weighted sample covariate category CV_{us} and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2	<i>-0.013(-0.019 - -0.008)</i>	<i>0.013(0.007 - 0.018)</i>	<i>-0.069(-0.076 - -0.063)</i>	-0.001(-0.009 - 0.007)	<i>0.008(0.000 - 0.016)</i>	<i>0.027(0.019 - 0.036)</i>
3	<i>-0.012(-0.017 - -0.006)</i>	<i>0.011(0.006 - 0.016)</i>	<i>-0.053(-0.061 - -0.046)</i>	-0.003(-0.011 - 0.004)	<i>0.010(0.002 - 0.017)</i>	<i>0.013(0.005 - 0.021)</i>
4	<i>-0.006(-0.012 - -0.000)</i>	<i>0.006(0.000 - 0.011)</i>	<i>-0.039(-0.047 - -0.031)</i>	-0.003(-0.012 - 0.005)	<i>0.005(-0.003 - 0.013)</i>	<i>0.015(0.007 - 0.024)</i>
5	-0.004(-0.011 - 0.002)	0.004(-0.002 - 0.010)	<i>-0.037(-0.045 - -0.029)</i>	-0.006(-0.015 - 0.003)	<i>0.003(-0.005 - 0.012)</i>	<i>0.011(0.002 - 0.019)</i>
6	-0.004(-0.011 - 0.002)	0.004(-0.002 - 0.010)	<i>-0.044(-0.052 - -0.035)</i>	-0.008(-0.017 - 0.002)	<i>0.006(-0.003 - 0.014)</i>	<i>0.013(0.004 - 0.022)</i>
7	<i>-0.007(-0.014 - -0.000)</i>	<i>0.007(0.000 - 0.013)</i>	<i>-0.049(-0.058 - -0.040)</i>	-0.004(-0.014 - 0.006)	<i>0.001(-0.008 - 0.011)</i>	<i>0.012(0.002 - 0.021)</i>
8	-0.003(-0.010 - 0.004)	0.003(-0.004 - 0.009)	<i>-0.045(-0.054 - -0.036)</i>	-0.008(-0.019 - 0.002)	-0.002(-0.012 - 0.007)	<i>0.012(0.002 - 0.022)</i>
9	<i>-0.009(-0.017 - -0.002)</i>	<i>0.009(0.002 - 0.016)</i>	<i>-0.046(-0.056 - -0.036)</i>	-0.009(-0.020 - 0.002)	-0.004(-0.014 - 0.006)	<i>0.017(0.007 - 0.028)</i>
10	-0.006(-0.013 - 0.002)	0.005(-0.002 - 0.013)	<i>-0.038(-0.049 - -0.028)</i>	-0.010(-0.021 - 0.002)	-0.001(-0.011 - 0.010)	<i>0.013(0.002 - 0.023)</i>
11	-0.006(-0.014 - 0.002)	0.006(-0.002 - 0.014)	<i>-0.034(-0.045 - -0.023)</i>	-0.008(-0.021 - 0.004)	<i>0.002(-0.010 - 0.013)</i>	<i>0.015(0.004 - 0.026)</i>
12	<i>-0.012(-0.020 - -0.003)</i>	<i>0.011(0.003 - 0.019)</i>	<i>-0.040(-0.051 - -0.028)</i>	-0.006(-0.019 - 0.007)	<i>0.001(-0.011 - 0.013)</i>	<i>0.015(0.003 - 0.026)</i>
13	-0.005(-0.014 - 0.004)	0.005(-0.004 - 0.013)	<i>-0.042(-0.054 - -0.030)</i>	-0.007(-0.021 - 0.007)	<i>0.004(-0.008 - 0.016)</i>	<i>0.015(0.003 - 0.027)</i>
14	-0.003(-0.012 - 0.006)	0.003(-0.005 - 0.012)	<i>-0.036(-0.048 - -0.024)</i>	-0.008(-0.022 - 0.006)	-0.003(-0.016 - 0.009)	<i>0.007(-0.005 - 0.019)</i>
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2	<i>0.035(0.027 - 0.044)</i>	<i>0.016(0.007 - 0.025)</i>	0.001(-0.004 - 0.006)	<i>-0.026(-0.034 - -0.018)</i>	<i>-0.038(-0.046 - -0.030)</i>	<i>0.033(0.025 - 0.041)</i>
3	<i>0.028(0.020 - 0.037)</i>	<i>0.013(0.004 - 0.021)</i>	-0.001(-0.006 - 0.004)	<i>-0.019(-0.027 - -0.010)</i>	<i>-0.032(-0.040 - -0.024)</i>	<i>0.026(0.019 - 0.034)</i>
4	<i>0.020(0.011 - 0.029)</i>	0.006(-0.003 - 0.015)	0.002(-0.003 - 0.008)	<i>-0.017(-0.026 - -0.008)</i>	<i>-0.022(-0.031 - -0.013)</i>	<i>0.016(0.008 - 0.024)</i>
5	<i>0.022(0.013 - 0.031)</i>	<i>0.010(0.001 - 0.019)</i>	-0.003(-0.008 - 0.003)	<i>-0.014(-0.024 - -0.004)</i>	<i>-0.019(-0.029 - -0.010)</i>	<i>0.021(0.013 - 0.029)</i>
6	<i>0.023(0.014 - 0.032)</i>	<i>0.012(0.002 - 0.021)</i>	0.000(-0.006 - 0.006)	<i>-0.014(-0.025 - -0.004)</i>	<i>-0.028(-0.037 - -0.019)</i>	<i>0.023(0.014 - 0.031)</i>
7	<i>0.025(0.015 - 0.034)</i>	<i>0.018(0.008 - 0.028)</i>	-0.002(-0.008 - 0.005)	<i>-0.019(-0.030 - -0.009)</i>	<i>-0.032(-0.042 - -0.023)</i>	<i>0.028(0.019 - 0.036)</i>
8	<i>0.029(0.019 - 0.039)</i>	<i>0.016(0.006 - 0.026)</i>	-0.004(-0.010 - 0.003)	<i>-0.013(-0.025 - -0.002)</i>	<i>-0.029(-0.039 - -0.019)</i>	<i>0.028(0.019 - 0.037)</i>
9	<i>0.029(0.019 - 0.040)</i>	<i>0.015(0.005 - 0.025)</i>	-0.004(-0.011 - 0.003)	<i>-0.017(-0.029 - -0.005)</i>	<i>-0.026(-0.037 - -0.015)</i>	<i>0.027(0.018 - 0.036)</i>
10	<i>0.022(0.011 - 0.032)</i>	<i>0.015(0.005 - 0.026)</i>	-0.005(-0.012 - 0.002)	-0.009(-0.022 - 0.005)	<i>-0.022(-0.034 - -0.010)</i>	<i>0.024(0.014 - 0.033)</i>
11	<i>0.022(0.011 - 0.033)</i>	0.004(-0.006 - 0.014)	0.002(-0.006 - 0.009)	<i>-0.015(-0.029 - -0.002)</i>	<i>-0.015(-0.028 - -0.003)</i>	<i>0.015(0.006 - 0.025)</i>
12	<i>0.029(0.017 - 0.040)</i>	0.002(-0.009 - 0.013)	0.004(-0.004 - 0.012)	-0.012(-0.027 - 0.002)	<i>-0.016(-0.029 - -0.002)</i>	<i>0.017(0.007 - 0.027)</i>
13	<i>0.025(0.013 - 0.037)</i>	0.005(-0.006 - 0.016)	0.002(-0.006 - 0.010)	-0.015(-0.030 - 0.001)	<i>-0.024(-0.038 - -0.011)</i>	<i>0.018(0.008 - 0.028)</i>
14	<i>0.023(0.011 - 0.036)</i>	<i>0.014(0.002 - 0.025)</i>	-0.003(-0.012 - 0.005)	-0.009(-0.025 - 0.006)	<i>-0.027(-0.040 - -0.014)</i>	<i>0.024(0.013 - 0.034)</i>
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2	-0.003(-0.012 - 0.006)	-0.001(-0.009 - 0.008)	<i>0.014(0.007 - 0.020)</i>	-0.005(-0.011 - 0.002)	-0.002(-0.009 - 0.005)	<i>-0.013(-0.021 - -0.004)</i>
3	-0.004(-0.012 - 0.005)	0.001(-0.007 - 0.010)	<i>0.011(0.003 - 0.018)</i>	<i>-0.017(-0.024 - -0.011)</i>	<i>-0.009(-0.017 - -0.002)</i>	<i>0.017(0.010 - 0.024)</i>
4	-0.001(-0.011 - 0.009)	-0.001(-0.010 - 0.008)	<i>0.011(0.004 - 0.019)</i>	<i>-0.010(-0.018 - -0.003)</i>	-0.004(-0.012 - 0.004)	0.003(-0.004 - 0.011)
5	-0.001(-0.012 - 0.009)	-0.003(-0.013 - 0.007)	0.007(-0.001 - 0.015)	<i>-0.010(-0.017 - -0.002)</i>	-0.001(-0.009 - 0.008)	0.004(-0.005 - 0.012)
6	-0.005(-0.016 - 0.006)	-0.004(-0.014 - 0.007)	<i>0.014(0.006 - 0.022)</i>	<i>-0.017(-0.025 - -0.009)</i>	-0.008(-0.017 - 0.000)	<i>0.012(0.004 - 0.021)</i>
7	0.000(-0.011 - 0.012)	-0.005(-0.016 - 0.005)	<i>0.015(0.007 - 0.023)</i>	<i>-0.010(-0.019 - -0.002)</i>	0.000(-0.009 - 0.009)	-0.006(-0.015 - 0.002)
8	-0.003(-0.015 - 0.009)	-0.006(-0.017 - 0.006)	<i>0.010(0.001 - 0.018)</i>	<i>-0.009(-0.018 - -0.001)</i>	-0.001(-0.011 - 0.008)	0.001(-0.009 - 0.010)
9	0.002(-0.011 - 0.014)	-0.006(-0.018 - 0.006)	0.008(-0.001 - 0.017)	<i>-0.014(-0.023 - -0.005)</i>	-0.001(-0.010 - 0.009)	0.008(-0.002 - 0.017)
10	0.001(-0.013 - 0.014)	-0.008(-0.020 - 0.004)	<i>0.010(0.001 - 0.020)</i>	<i>-0.014(-0.023 - -0.004)</i>	0.003(-0.007 - 0.014)	0.000(-0.010 - 0.010)
11	-0.004(-0.018 - 0.010)	-0.007(-0.019 - 0.006)	<i>0.014(0.005 - 0.023)</i>	<i>-0.013(-0.023 - -0.003)</i>	<i>-0.012(-0.022 - -0.001)</i>	0.008(-0.002 - 0.019)
12	<i>-0.017(-0.031 - -0.003)</i>	-0.009(-0.023 - 0.004)	<i>0.021(0.011 - 0.030)</i>	<i>-0.014(-0.025 - -0.004)</i>	-0.008(-0.020 - 0.003)	-0.002(-0.013 - 0.009)
13	-0.007(-0.022 - 0.009)	-0.003(-0.017 - 0.011)	<i>0.014(0.004 - 0.024)</i>	-0.005(-0.016 - 0.006)	-0.007(-0.019 - 0.005)	-0.006(-0.017 - 0.006)

14	-0.008(-0.024 - 0.008)	-0.003(-0.018 - 0.011)	0.009(-0.001 - 0.019)	-0.007(-0.018 - 0.004)	-0.001(-0.014 - 0.012)	-0.003(-0.015 - 0.009)
	Ethnicity: W. Brit.	Ethnicity: Mixed	Ethnicity: Indian	Ethnicity: Pakistani	Ethnicity: Bangladeshi	Ethnicity: Caribbean
2	0.018(0.015 - 0.020)	-0.008(-0.015 - -0.000)	-0.022(-0.029 - -0.016)	-0.016(-0.021 - -0.010)	-0.017(-0.022 - -0.013)	-0.011(-0.017 - -0.006)
3	0.012(0.009 - 0.015)	-0.004(-0.013 - 0.004)	-0.015(-0.022 - -0.008)	-0.011(-0.018 - -0.005)	-0.016(-0.021 - -0.011)	-0.007(-0.013 - -0.001)
4	0.008(0.005 - 0.011)	-0.003(-0.012 - 0.006)	-0.007(-0.016 - 0.001)	-0.012(-0.019 - -0.005)	-0.010(-0.016 - -0.004)	-0.005(-0.012 - 0.002)
5	0.009(0.006 - 0.012)	-0.000(-0.009 - 0.009)	-0.011(-0.019 - -0.002)	-0.015(-0.022 - -0.008)	-0.011(-0.017 - -0.005)	-0.006(-0.014 - 0.001)
6	0.009(0.006 - 0.012)	-0.006(-0.016 - 0.003)	-0.009(-0.017 - -0.000)	-0.010(-0.018 - -0.002)	-0.007(-0.013 - -0.000)	-0.009(-0.016 - -0.001)
7	0.014(0.011 - 0.017)	-0.009(-0.018 - 0.001)	-0.008(-0.017 - 0.001)	-0.010(-0.017 - -0.003)	-0.011(-0.018 - -0.004)	-0.008(-0.015 - -0.001)
8	0.011(0.008 - 0.015)	-0.005(-0.016 - 0.005)	-0.009(-0.019 - -0.000)	-0.009(-0.017 - -0.001)	-0.010(-0.017 - -0.004)	-0.007(-0.015 - 0.001)
9	0.013(0.009 - 0.016)	-0.010(-0.021 - 0.001)	-0.012(-0.021 - -0.002)	-0.014(-0.022 - -0.006)	-0.008(-0.015 - -0.001)	-0.010(-0.018 - -0.002)
10	0.009(0.005 - 0.012)	-0.003(-0.015 - 0.009)	-0.009(-0.019 - 0.002)	-0.013(-0.021 - -0.005)	-0.011(-0.018 - -0.004)	-0.010(-0.019 - -0.001)
11	0.010(0.006 - 0.014)	-0.008(-0.020 - 0.004)	-0.006(-0.017 - 0.004)	-0.015(-0.024 - -0.006)	-0.007(-0.016 - 0.002)	-0.009(-0.018 - 0.000)
12	0.012(0.009 - 0.016)	-0.002(-0.016 - 0.012)	-0.014(-0.025 - -0.003)	-0.023(-0.032 - -0.015)	-0.015(-0.023 - -0.007)	-0.007(-0.018 - 0.005)
13	0.010(0.006 - 0.015)	-0.002(-0.016 - 0.012)	-0.010(-0.021 - 0.002)	-0.012(-0.023 - -0.001)	-0.016(-0.026 - -0.007)	-0.009(-0.021 - 0.004)
14	0.014(0.009 - 0.018)	-0.010(-0.025 - 0.005)	-0.009(-0.021 - 0.003)	-0.012(-0.024 - -0.000)	-0.017(-0.027 - -0.006)	-0.013(-0.025 - -0.001)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2	-0.023(-0.028 - -0.017)	-0.026(-0.034 - -0.018)	0.024(0.019 - 0.028)	0.001(-0.008 - 0.010)	0.001(-0.008 - 0.011)	0.004(-0.005 - 0.013)
3	-0.018(-0.025 - -0.012)	-0.018(-0.027 - -0.009)	0.017(0.013 - 0.022)	0.004(-0.005 - 0.013)	0.005(-0.005 - 0.014)	0.001(-0.008 - 0.010)
4	-0.015(-0.022 - -0.008)	-0.011(-0.021 - -0.000)	0.013(0.008 - 0.017)	-0.001(-0.010 - 0.009)	-0.000(-0.010 - 0.010)	-0.002(-0.012 - 0.007)
5	-0.013(-0.021 - -0.006)	-0.013(-0.024 - -0.002)	0.012(0.008 - 0.017)	0.001(-0.009 - 0.011)	0.000(-0.010 - 0.010)	-0.001(-0.011 - 0.009)
6	-0.017(-0.025 - -0.010)	-0.010(-0.021 - 0.001)	0.008(0.003 - 0.012)	-0.001(-0.011 - 0.010)	-0.002(-0.012 - 0.009)	-0.005(-0.015 - 0.005)
7	-0.019(-0.027 - -0.011)	-0.029(-0.039 - -0.019)	0.004(-0.001 - 0.008)	0.002(-0.009 - 0.013)	-0.002(-0.013 - 0.009)	0.002(-0.009 - 0.013)
8	-0.021(-0.029 - -0.013)	-0.020(-0.031 - -0.009)	0.009(0.004 - 0.014)	-0.005(-0.016 - 0.006)	-0.002(-0.014 - 0.009)	-0.006(-0.017 - 0.005)
9	-0.014(-0.023 - -0.005)	-0.022(-0.033 - -0.011)	0.006(0.001 - 0.011)	0.001(-0.010 - 0.013)	-0.007(-0.019 - 0.004)	0.003(-0.009 - 0.015)
10	-0.015(-0.024 - -0.005)	-0.010(-0.023 - 0.003)	0.008(0.002 - 0.013)	-0.003(-0.015 - 0.009)	-0.003(-0.016 - 0.009)	-0.006(-0.019 - 0.006)
11	-0.026(-0.035 - -0.018)	-0.008(-0.021 - 0.006)	0.010(0.005 - 0.016)	-0.004(-0.016 - 0.008)	-0.004(-0.017 - 0.008)	-0.006(-0.019 - 0.007)
12	-0.025(-0.034 - -0.016)	-0.012(-0.026 - 0.002)	0.008(0.002 - 0.014)	-0.001(-0.014 - 0.012)	-0.002(-0.016 - 0.011)	-0.002(-0.016 - 0.012)
13	-0.021(-0.033 - -0.010)	-0.010(-0.025 - 0.004)	0.006(-0.001 - 0.012)	-0.001(-0.014 - 0.012)	-0.003(-0.017 - 0.011)	-0.003(-0.017 - 0.011)
14	-0.026(-0.037 - -0.014)	-0.012(-0.027 - 0.002)	0.007(0.001 - 0.014)	-0.005(-0.019 - 0.009)	0.001(-0.014 - 0.016)	-0.000(-0.015 - 0.014)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2	-0.055(-0.063 - -0.048)	0.032(0.025 - 0.039)	0.015(0.009 - 0.021)	-0.049(-0.055 - -0.043)	0.005(-0.004 - 0.013)	-0.005(-0.013 - 0.003)
3	-0.047(-0.054 - -0.040)	0.027(0.020 - 0.034)	0.004(-0.002 - 0.010)	-0.033(-0.039 - -0.026)	0.020(0.012 - 0.029)	-0.000(-0.009 - 0.008)
4	-0.031(-0.040 - -0.023)	0.017(0.010 - 0.024)	0.006(-0.001 - 0.012)	-0.025(-0.032 - -0.017)	0.015(0.006 - 0.024)	-0.007(-0.016 - 0.003)
5	-0.035(-0.044 - -0.026)	0.016(0.009 - 0.024)	0.000(-0.007 - 0.007)	-0.018(-0.025 - -0.010)	0.016(0.006 - 0.025)	-0.007(-0.017 - 0.003)
6	-0.017(-0.026 - -0.007)	0.019(0.012 - 0.027)	0.004(-0.003 - 0.011)	-0.025(-0.033 - -0.017)	0.016(0.006 - 0.026)	-0.012(-0.022 - -0.002)
7	-0.019(-0.029 - -0.009)	0.026(0.018 - 0.034)	0.006(-0.002 - 0.013)	-0.034(-0.042 - -0.026)	0.013(0.003 - 0.022)	-0.011(-0.022 - 0.000)
8	-0.025(-0.035 - -0.015)	0.027(0.019 - 0.035)	0.001(-0.007 - 0.008)	-0.029(-0.038 - -0.021)	0.013(0.002 - 0.023)	-0.014(-0.025 - -0.003)
9	-0.026(-0.036 - -0.015)	0.029(0.021 - 0.038)	-0.000(-0.008 - 0.008)	-0.031(-0.040 - -0.022)	0.015(0.004 - 0.025)	-0.008(-0.020 - 0.005)
10	-0.020(-0.031 - -0.009)	0.022(0.013 - 0.031)	-0.003(-0.012 - 0.005)	-0.020(-0.030 - -0.010)	0.010(-0.001 - 0.021)	-0.013(-0.026 - 0.000)
11	-0.028(-0.039 - -0.017)	0.025(0.016 - 0.034)	0.009(-0.000 - 0.018)	-0.037(-0.047 - -0.027)	0.007(-0.004 - 0.018)	-0.017(-0.030 - -0.003)
12	-0.033(-0.045 - -0.022)	0.029(0.020 - 0.038)	0.001(-0.008 - 0.010)	-0.033(-0.044 - -0.022)	0.006(-0.006 - 0.018)	-0.020(-0.034 - -0.006)
13	-0.025(-0.037 - -0.013)	0.024(0.015 - 0.034)	0.004(-0.005 - 0.014)	-0.033(-0.045 - -0.021)	-0.002(-0.014 - 0.011)	-0.020(-0.034 - -0.006)
14	-0.033(-0.045 - -0.020)	0.025(0.016 - 0.035)	0.002(-0.008 - 0.012)	-0.030(-0.042 - -0.018)	0.001(-0.011 - 0.014)	-0.017(-0.033 - -0.002)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2	0.028(0.021 - 0.035)	0.010(0.002 - 0.017)	-0.040(-0.047 - -0.033)
3	0.017(0.010 - 0.024)	0.004(-0.004 - 0.011)	-0.037(-0.044 - -0.030)
4	0.017(0.010 - 0.024)	0.000(-0.008 - 0.008)	-0.026(-0.033 - -0.019)
5	0.016(0.009 - 0.024)	0.001(-0.007 - 0.009)	-0.027(-0.035 - -0.020)
6	0.019(0.011 - 0.027)	-0.001(-0.009 - 0.008)	-0.026(-0.034 - -0.019)
7	0.024(0.016 - 0.032)	0.002(-0.007 - 0.011)	-0.032(-0.040 - -0.024)
8	0.028(0.019 - 0.036)	-0.006(-0.015 - 0.003)	-0.027(-0.036 - -0.019)
9	0.024(0.016 - 0.033)	-0.009(-0.018 - 0.001)	-0.025(-0.034 - -0.016)
10	0.026(0.016 - 0.035)	-0.006(-0.017 - 0.004)	-0.023(-0.033 - -0.014)
11	0.027(0.017 - 0.036)	-0.003(-0.014 - 0.008)	-0.023(-0.032 - -0.013)
12	0.028(0.018 - 0.038)	-0.003(-0.014 - 0.008)	-0.023(-0.033 - -0.013)
13	0.029(0.019 - 0.040)	0.002(-0.010 - 0.014)	-0.021(-0.031 - -0.011)
14	0.030(0.019 - 0.040)	-0.002(-0.014 - 0.011)	-0.023(-0.033 - -0.012)

Table 8: Overall weighted sample covariate category CV_cs and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2	<i>0.009(0.005 - 0.012)</i>	<i>0.009(0.005 - 0.012)</i>	<i>0.034(0.030 - 0.038)</i>	<i>0.011(0.010 - 0.013)</i>	<i>0.013(0.011 - 0.015)</i>	<i>0.025(0.022 - 0.028)</i>
3	<i>0.007(0.005 - 0.010)</i>	<i>0.007(0.005 - 0.010)</i>	<i>0.025(0.022 - 0.028)</i>	<i>0.008(0.006 - 0.009)</i>	<i>0.011(0.009 - 0.014)</i>	<i>0.014(0.011 - 0.017)</i>
4	<i>0.004(0.002 - 0.007)</i>	<i>0.004(0.002 - 0.007)</i>	<i>0.019(0.016 - 0.022)</i>	<i>0.006(0.005 - 0.007)</i>	<i>0.008(0.006 - 0.010)</i>	<i>0.013(0.011 - 0.016)</i>
5	<i>0.003(0.001 - 0.005)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.018(0.016 - 0.021)</i>	<i>0.006(0.005 - 0.008)</i>	<i>0.008(0.006 - 0.010)</i>	<i>0.013(0.010 - 0.015)</i>
6	<i>0.003(0.001 - 0.006)</i>	<i>0.003(0.001 - 0.006)</i>	<i>0.021(0.018 - 0.024)</i>	<i>0.007(0.005 - 0.010)</i>	<i>0.009(0.007 - 0.012)</i>	<i>0.014(0.011 - 0.017)</i>
7	<i>0.006(0.003 - 0.008)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.020(0.017 - 0.023)</i>	<i>0.006(0.005 - 0.007)</i>	<i>0.007(0.005 - 0.009)</i>	<i>0.012(0.010 - 0.015)</i>
8	<i>0.003(0.001 - 0.006)</i>	<i>0.003(0.001 - 0.006)</i>	<i>0.019(0.016 - 0.023)</i>	<i>0.006(0.005 - 0.007)</i>	<i>0.006(0.005 - 0.008)</i>	<i>0.013(0.010 - 0.015)</i>
9	<i>0.008(0.005 - 0.010)</i>	<i>0.008(0.005 - 0.010)</i>	<i>0.020(0.017 - 0.024)</i>	<i>0.006(0.005 - 0.007)</i>	<i>0.006(0.005 - 0.008)</i>	<i>0.016(0.013 - 0.019)</i>
10	<i>0.006(0.004 - 0.009)</i>	<i>0.006(0.004 - 0.009)</i>	<i>0.017(0.014 - 0.020)</i>	<i>0.005(0.004 - 0.007)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.012(0.010 - 0.015)</i>
11	<i>0.008(0.005 - 0.010)</i>	<i>0.008(0.005 - 0.010)</i>	<i>0.016(0.012 - 0.019)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.012(0.009 - 0.014)</i>
12	<i>0.012(0.010 - 0.015)</i>	<i>0.012(0.010 - 0.015)</i>	<i>0.021(0.018 - 0.025)</i>	<i>0.006(0.004 - 0.007)</i>	<i>0.009(0.006 - 0.011)</i>	<i>0.013(0.010 - 0.015)</i>
13	<i>0.006(0.003 - 0.009)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.020(0.017 - 0.024)</i>	<i>0.006(0.004 - 0.007)</i>	<i>0.008(0.005 - 0.011)</i>	<i>0.013(0.010 - 0.016)</i>
14	<i>0.005(0.002 - 0.008)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.013(0.009 - 0.016)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.007(0.005 - 0.010)</i>
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2	<i>0.016(0.012 - 0.019)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.004(0.001 - 0.006)</i>	<i>0.004(-0.000 - 0.009)</i>	<i>0.002(-0.002 - 0.007)</i>	<i>0.003(-0.000 - 0.005)</i>
3	<i>0.013(0.010 - 0.015)</i>	<i>0.007(0.005 - 0.009)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.004(0.000 - 0.007)</i>	<i>0.005(0.002 - 0.009)</i>	<i>0.002(0.000 - 0.005)</i>
4	<i>0.008(0.006 - 0.011)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.001(-0.002 - 0.005)</i>	<i>0.001(-0.001 - 0.003)</i>
5	<i>0.010(0.008 - 0.012)</i>	<i>0.005(0.004 - 0.007)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.002(-0.001 - 0.006)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.002(0.001 - 0.004)</i>
6	<i>0.010(0.007 - 0.013)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.002(-0.003 - 0.006)</i>	<i>0.002(-0.002 - 0.006)</i>	<i>0.002(0.000 - 0.005)</i>
7	<i>0.009(0.007 - 0.011)</i>	<i>0.003(0.002 - 0.005)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.003(-0.000 - 0.006)</i>	<i>0.002(0.000 - 0.004)</i>
8	<i>0.013(0.011 - 0.015)</i>	<i>0.005(0.003 - 0.006)</i>	<i>0.002(-0.000 - 0.004)</i>	<i>0.001(-0.004 - 0.006)</i>	<i>0.002(-0.002 - 0.005)</i>	<i>0.001(-0.001 - 0.003)</i>
9	<i>0.013(0.011 - 0.016)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.002(-0.000 - 0.004)</i>	<i>0.004(0.000 - 0.008)</i>	<i>0.001(-0.005 - 0.006)</i>	<i>0.001(-0.001 - 0.003)</i>
10	<i>0.009(0.006 - 0.011)</i>	<i>0.004(0.002 - 0.005)</i>	<i>0.003(0.000 - 0.005)</i>	<i>0.002(-0.002 - 0.005)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.002(-0.000 - 0.004)</i>
11	<i>0.011(0.009 - 0.014)</i>	<i>0.008(0.005 - 0.010)</i>	<i>0.002(-0.000 - 0.005)</i>	<i>0.003(-0.001 - 0.006)</i>	<i>0.004(0.000 - 0.007)</i>	<i>0.001(-0.002 - 0.004)</i>
12	<i>0.017(0.014 - 0.019)</i>	<i>0.012(0.010 - 0.015)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.008(0.004 - 0.011)</i>	<i>0.003(0.001 - 0.005)</i>
13	<i>0.014(0.011 - 0.016)</i>	<i>0.009(0.007 - 0.012)</i>	<i>0.003(0.001 - 0.006)</i>	<i>0.001(-0.004 - 0.006)</i>	<i>0.000(-0.010 - 0.011)</i>	<i>0.003(0.001 - 0.005)</i>
14	<i>0.011(0.008 - 0.014)</i>	<i>0.005(0.003 - 0.007)</i>	<i>0.003(0.001 - 0.006)</i>	<i>0.003(-0.000 - 0.006)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.002(0.000 - 0.004)</i>
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2	<i>0.002(-0.002 - 0.006)</i>	<i>0.004(0.000 - 0.008)</i>	<i>0.011(0.007 - 0.014)</i>	<i>0.006(0.004 - 0.008)</i>	<i>0.013(0.010 - 0.017)</i>	<i>0.003(-0.000 - 0.006)</i>
3	<i>0.002(-0.002 - 0.005)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.010(0.007 - 0.012)</i>	<i>0.012(0.009 - 0.015)</i>	<i>0.015(0.012 - 0.018)</i>	<i>0.017(0.014 - 0.021)</i>
4	<i>0.001(-0.002 - 0.004)</i>	<i>0.004(0.001 - 0.007)</i>	<i>0.008(0.005 - 0.010)</i>	<i>0.005(0.002 - 0.007)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.003(0.001 - 0.006)</i>
5	<i>0.001(-0.001 - 0.003)</i>	<i>0.003(0.000 - 0.005)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.005(0.003 - 0.008)</i>	<i>0.003(0.001 - 0.006)</i>
6	<i>0.003(-0.001 - 0.006)</i>	<i>0.003(0.000 - 0.006)</i>	<i>0.011(0.008 - 0.014)</i>	<i>0.009(0.006 - 0.012)</i>	<i>0.013(0.009 - 0.016)</i>	<i>0.010(0.007 - 0.013)</i>
7	<i>0.002(-0.000 - 0.005)</i>	<i>0.002(-0.000 - 0.005)</i>	<i>0.010(0.008 - 0.013)</i>	<i>0.004(0.002 - 0.006)</i>	<i>0.007(0.004 - 0.010)</i>	<i>0.004(0.002 - 0.006)</i>
8	<i>0.001(-0.003 - 0.005)</i>	<i>0.003(0.000 - 0.006)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.003(0.001 - 0.005)</i>	<i>0.008(0.005 - 0.011)</i>	<i>0.002(0.001 - 0.004)</i>
9	<i>0.002(-0.001 - 0.005)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.006(0.003 - 0.008)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.006(0.003 - 0.010)</i>
10	<i>0.002(-0.000 - 0.005)</i>	<i>0.001(-0.003 - 0.005)</i>	<i>0.008(0.006 - 0.011)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.003(0.000 - 0.005)</i>	<i>0.002(0.001 - 0.004)</i>
11	<i>0.001(-0.004 - 0.005)</i>	<i>0.001(-0.005 - 0.007)</i>	<i>0.008(0.006 - 0.011)</i>	<i>0.007(0.004 - 0.009)</i>	<i>0.010(0.007 - 0.014)</i>	<i>0.008(0.005 - 0.011)</i>
12	<i>0.010(0.006 - 0.013)</i>	<i>0.004(0.001 - 0.008)</i>	<i>0.014(0.011 - 0.017)</i>	<i>0.008(0.005 - 0.011)</i>	<i>0.008(0.004 - 0.011)</i>	<i>0.004(0.002 - 0.006)</i>
13	<i>0.003(-0.001 - 0.006)</i>	<i>0.002(-0.001 - 0.006)</i>	<i>0.008(0.005 - 0.011)</i>	<i>0.003(0.002 - 0.005)</i>	<i>0.008(0.004 - 0.011)</i>	<i>0.005(0.002 - 0.008)</i>

14	0.003(-0.001 - 0.006) Ethnicity: W. Brit.	0.002(-0.001 - 0.005) Ethnicity: Mixed	0.005(0.002 - 0.008) Ethnicity: Indian	0.002(-0.000 - 0.005) Ethnicity: Pakistani	0.004(0.001 - 0.007) Ethnicity: Bangladeshi	0.002(-0.001 - 0.006) Ethnicity: Caribbean
2	0.012(0.009 - 0.014)	0.002(-0.003 - 0.007)	0.013(0.008 - 0.018)	0.007(0.002 - 0.011)	0.008(0.002 - 0.013)	0.006(0.001 - 0.011)
3	0.009(0.007 - 0.011)	0.001(-0.003 - 0.006)	0.009(0.004 - 0.013)	0.004(-0.000 - 0.008)	0.007(0.003 - 0.012)	0.003(-0.001 - 0.007)
4	0.007(0.005 - 0.009)	0.001(-0.004 - 0.006)	0.004(0.000 - 0.008)	0.006(0.002 - 0.010)	0.004(-0.001 - 0.008)	0.003(-0.001 - 0.007)
5	0.009(0.007 - 0.010)	0.003(-0.000 - 0.006)	0.007(0.003 - 0.010)	0.008(0.004 - 0.012)	0.004(0.000 - 0.008)	0.004(0.000 - 0.007)
6	0.008(0.006 - 0.010)	0.002(-0.002 - 0.007)	0.006(0.002 - 0.010)	0.004(0.000 - 0.009)	0.002(-0.003 - 0.007)	0.006(0.001 - 0.010)
7	0.013(0.011 - 0.015)	0.004(0.000 - 0.008)	0.005(0.002 - 0.008)	0.004(0.001 - 0.008)	0.004(0.000 - 0.009)	0.006(0.002 - 0.010)
8	0.010(0.008 - 0.012)	0.001(-0.002 - 0.005)	0.006(0.002 - 0.010)	0.003(-0.001 - 0.007)	0.004(-0.000 - 0.008)	0.004(-0.000 - 0.008)
9	0.011(0.009 - 0.013)	0.004(0.000 - 0.009)	0.008(0.004 - 0.013)	0.006(0.002 - 0.010)	0.002(-0.002 - 0.005)	0.007(0.003 - 0.012)
10	0.008(0.006 - 0.009)	0.002(-0.001 - 0.005)	0.006(0.002 - 0.010)	0.006(0.002 - 0.011)	0.004(-0.000 - 0.008)	0.006(0.002 - 0.010)
11	0.009(0.007 - 0.012)	0.004(-0.001 - 0.008)	0.005(0.001 - 0.009)	0.008(0.003 - 0.012)	0.002(-0.001 - 0.005)	0.005(0.000 - 0.009)
12	0.014(0.011 - 0.016)	0.002(-0.001 - 0.006)	0.012(0.007 - 0.016)	0.015(0.010 - 0.020)	0.007(0.003 - 0.012)	0.003(-0.001 - 0.007)
13	0.010(0.008 - 0.012)	0.003(-0.001 - 0.007)	0.008(0.004 - 0.013)	0.006(0.001 - 0.010)	0.009(0.004 - 0.014)	0.004(-0.001 - 0.008)
14	0.012(0.010 - 0.015)	0.003(-0.000 - 0.007)	0.007(0.002 - 0.011)	0.004(0.001 - 0.008)	0.007(0.003 - 0.012)	0.007(0.002 - 0.012)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2	0.010(0.005 - 0.015)	0.010(0.005 - 0.014)	0.020(0.018 - 0.023)	0.005(0.003 - 0.008)	0.004(0.001 - 0.008)	0.005(0.001 - 0.008)
3	0.008(0.004 - 0.012)	0.009(0.005 - 0.013)	0.016(0.014 - 0.018)	0.006(0.003 - 0.009)	0.005(0.002 - 0.008)	0.003(0.001 - 0.005)
4	0.008(0.004 - 0.012)	0.006(0.003 - 0.009)	0.013(0.011 - 0.015)	0.003(0.002 - 0.005)	0.003(0.001 - 0.005)	0.003(0.000 - 0.005)
5	0.007(0.003 - 0.011)	0.009(0.005 - 0.012)	0.013(0.011 - 0.015)	0.004(0.002 - 0.007)	0.003(0.001 - 0.004)	0.003(0.001 - 0.004)
6	0.011(0.006 - 0.015)	0.007(0.003 - 0.011)	0.006(0.004 - 0.008)	0.002(-0.001 - 0.006)	0.001(-0.002 - 0.005)	0.003(-0.000 - 0.007)
7	0.009(0.005 - 0.013)	0.016(0.013 - 0.020)	0.005(0.004 - 0.007)	0.004(0.001 - 0.007)	0.002(-0.001 - 0.004)	0.003(-0.000 - 0.006)
8	0.011(0.007 - 0.015)	0.012(0.008 - 0.015)	0.009(0.007 - 0.011)	0.004(0.001 - 0.007)	0.002(-0.000 - 0.005)	0.005(0.002 - 0.008)
9	0.006(0.002 - 0.010)	0.014(0.010 - 0.018)	0.007(0.006 - 0.009)	0.003(0.000 - 0.006)	0.005(0.001 - 0.008)	0.004(0.001 - 0.007)
10	0.008(0.004 - 0.012)	0.006(0.003 - 0.009)	0.007(0.005 - 0.009)	0.002(-0.000 - 0.004)	0.002(-0.001 - 0.006)	0.005(0.000 - 0.009)
11	0.016(0.011 - 0.021)	0.004(0.001 - 0.008)	0.008(0.006 - 0.011)	0.003(0.000 - 0.005)	0.002(-0.001 - 0.005)	0.004(0.000 - 0.007)
12	0.016(0.011 - 0.021)	0.008(0.004 - 0.012)	0.008(0.006 - 0.010)	0.003(0.001 - 0.005)	0.002(-0.000 - 0.005)	0.003(0.000 - 0.005)
13	0.012(0.007 - 0.017)	0.006(0.003 - 0.010)	0.005(0.003 - 0.007)	0.003(0.001 - 0.006)	0.002(-0.001 - 0.005)	0.002(-0.001 - 0.005)
14	0.016(0.011 - 0.022)	0.008(0.004 - 0.011)	0.008(0.006 - 0.010)	0.004(0.001 - 0.007)	0.004(0.001 - 0.007)	0.004(0.002 - 0.007)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2	0.043(0.039 - 0.048)	0.008(0.005 - 0.011)	0.013(0.010 - 0.017)	0.020(0.016 - 0.024)	0.005(0.002 - 0.007)	0.008(0.004 - 0.012)
3	0.037(0.033 - 0.041)	0.009(0.006 - 0.012)	0.007(0.005 - 0.010)	0.015(0.012 - 0.018)	0.015(0.012 - 0.018)	0.009(0.006 - 0.012)
4	0.027(0.023 - 0.031)	0.005(0.003 - 0.008)	0.007(0.005 - 0.009)	0.012(0.009 - 0.015)	0.011(0.008 - 0.013)	0.003(0.000 - 0.005)
5	0.030(0.026 - 0.034)	0.004(0.001 - 0.006)	0.004(0.002 - 0.006)	0.007(0.005 - 0.010)	0.009(0.007 - 0.012)	0.002(0.000 - 0.003)
6	0.014(0.010 - 0.018)	0.004(0.001 - 0.006)	0.006(0.004 - 0.009)	0.010(0.007 - 0.013)	0.009(0.006 - 0.012)	0.002(-0.001 - 0.005)
7	0.015(0.011 - 0.019)	0.008(0.006 - 0.011)	0.009(0.007 - 0.011)	0.016(0.013 - 0.019)	0.007(0.004 - 0.009)	0.002(0.000 - 0.004)
8	0.019(0.015 - 0.023)	0.008(0.005 - 0.010)	0.006(0.004 - 0.009)	0.013(0.010 - 0.015)	0.007(0.004 - 0.009)	0.003(-0.000 - 0.006)
9	0.019(0.014 - 0.023)	0.011(0.008 - 0.013)	0.008(0.005 - 0.010)	0.016(0.013 - 0.019)	0.008(0.005 - 0.010)	0.002(-0.001 - 0.006)
10	0.013(0.009 - 0.017)	0.006(0.004 - 0.009)	0.003(0.002 - 0.005)	0.008(0.005 - 0.011)	0.004(0.003 - 0.006)	0.004(0.001 - 0.007)
11	0.018(0.014 - 0.023)	0.012(0.009 - 0.014)	0.010(0.007 - 0.012)	0.020(0.016 - 0.023)	0.008(0.006 - 0.010)	0.006(0.002 - 0.009)
12	0.021(0.016 - 0.025)	0.014(0.011 - 0.017)	0.006(0.005 - 0.007)	0.015(0.011 - 0.018)	0.007(0.004 - 0.009)	0.010(0.006 - 0.014)
13	0.015(0.010 - 0.020)	0.010(0.008 - 0.013)	0.007(0.004 - 0.009)	0.015(0.012 - 0.019)	0.006(0.004 - 0.008)	0.009(0.005 - 0.013)
14	0.018(0.014 - 0.023)	0.008(0.006 - 0.011)	0.006(0.004 - 0.008)	0.012(0.009 - 0.015)	0.004(0.003 - 0.006)	0.007(0.003 - 0.010)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2	0.007(0.004 - 0.009)	0.015(0.012 - 0.019)	0.019(0.016 - 0.023)
3	0.006(0.005 - 0.008)	0.011(0.008 - 0.013)	0.021(0.018 - 0.025)
4	0.005(0.004 - 0.007)	0.006(0.004 - 0.008)	0.015(0.012 - 0.018)
5	0.004(0.003 - 0.006)	0.008(0.006 - 0.010)	0.014(0.012 - 0.017)
6	0.004(0.003 - 0.006)	0.006(0.003 - 0.009)	0.012(0.009 - 0.015)
7	0.007(0.004 - 0.009)	0.009(0.006 - 0.011)	0.015(0.012 - 0.018)
8	0.008(0.006 - 0.011)	0.005(0.003 - 0.007)	0.012(0.010 - 0.015)
9	0.005(0.002 - 0.007)	0.003(0.001 - 0.005)	0.010(0.007 - 0.013)
10	0.009(0.006 - 0.011)	0.004(0.002 - 0.006)	0.010(0.007 - 0.012)
11	0.011(0.009 - 0.014)	0.004(0.003 - 0.006)	0.013(0.010 - 0.016)
12	0.010(0.008 - 0.013)	0.004(0.003 - 0.006)	0.010(0.008 - 0.013)
13	0.011(0.009 - 0.014)	0.005(0.002 - 0.007)	0.008(0.005 - 0.010)
14	0.010(0.008 - 0.013)	0.005(0.002 - 0.007)	0.008(0.006 - 0.011)

Table 9: EMBS sample covariate category CV_{us} and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2	-0.034(-0.034 - -0.034)	0.032(0.031 - 0.032)	-0.068(-0.068 - -0.067)	0.014(0.013 - 0.014)	0.044(0.043 - 0.045)	0.014(0.013 - 0.015)
3	-0.022(-0.022 - -0.021)	0.019(0.019 - 0.020)	-0.057(-0.058 - -0.057)	0.014(0.014 - 0.015)	0.024(0.023 - 0.025)	0.023(0.022 - 0.024)
4	-0.012(-0.012 - -0.011)	0.010(0.010 - 0.011)	-0.043(-0.043 - -0.042)	0.002(0.002 - 0.003)	0.022(0.021 - 0.023)	0.018(0.017 - 0.018)
5	-0.012(-0.013 - -0.012)	0.011(0.010 - 0.011)	-0.040(-0.040 - -0.039)	0.009(0.008 - 0.009)	0.009(0.008 - 0.010)	0.012(0.011 - 0.013)
6	-0.015(-0.015 - -0.014)	0.013(0.013 - 0.014)	-0.062(-0.063 - -0.061)	0.013(0.013 - 0.014)	0.025(0.024 - 0.026)	0.015(0.014 - 0.016)
7	-0.006(-0.007 - -0.006)	0.005(0.005 - 0.006)	-0.060(-0.060 - -0.059)	0.040(0.039 - 0.041)	0.010(0.009 - 0.011)	0.009(0.008 - 0.010)
8	-0.004(-0.005 - -0.004)	0.004(0.003 - 0.004)	-0.035(-0.036 - -0.035)	0.007(0.006 - 0.007)	0.010(0.009 - 0.011)	0.013(0.012 - 0.014)
9	-0.020(-0.020 - -0.019)	0.017(0.017 - 0.018)	-0.040(-0.040 - -0.039)	0.008(0.008 - 0.009)	0.015(0.014 - 0.016)	0.008(0.007 - 0.009)
10	-0.009(-0.009 - -0.008)	0.008(0.007 - 0.008)	-0.033(-0.034 - -0.032)	0.012(0.011 - 0.013)	0.020(0.019 - 0.021)	0.010(0.009 - 0.011)
11	-0.010(-0.011 - -0.009)	0.009(0.008 - 0.009)	-0.023(-0.024 - -0.023)	0.001(0.000 - 0.002)	-0.001(-0.002 - -0.000)	0.028(0.027 - 0.029)
12	-0.006(-0.007 - -0.006)	0.006(0.005 - 0.006)	-0.021(-0.022 - -0.021)	0.001(0.000 - 0.002)	0.002(0.001 - 0.003)	0.022(0.021 - 0.023)
13	-0.006(-0.007 - -0.005)	0.005(0.005 - 0.006)	-0.024(-0.025 - -0.023)	-0.010(-0.011 - -0.009)	-0.001(-0.002 - -0.000)	0.011(0.010 - 0.012)
14	-0.014(-0.014 - -0.013)	0.012(0.011 - 0.013)	-0.022(-0.023 - -0.021)	-0.004(-0.005 - -0.003)	0.006(0.005 - 0.007)	-0.001(-0.002 - 0.000)
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2	0.027(0.027 - 0.028)	0.004(0.004 - 0.005)	0.009(0.009 - 0.010)	-0.030(-0.030 - -0.029)	-0.026(-0.026 - -0.025)	0.015(0.014 - 0.015)
3	0.019(0.018 - 0.020)	0.001(0.000 - 0.002)	0.009(0.009 - 0.010)	-0.020(-0.021 - -0.019)	-0.019(-0.019 - -0.018)	0.022(0.021 - 0.023)
4	0.017(0.016 - 0.018)	0.003(0.002 - 0.004)	0.009(0.009 - 0.010)	-0.004(-0.005 - -0.003)	-0.025(-0.026 - -0.025)	0.014(0.013 - 0.015)
5	0.013(0.013 - 0.014)	0.022(0.021 - 0.023)	0.007(0.007 - 0.008)	-0.016(-0.016 - -0.015)	-0.022(-0.022 - -0.021)	0.026(0.025 - 0.027)
6	0.024(0.023 - 0.025)	0.010(0.009 - 0.011)	0.020(0.020 - 0.021)	-0.015(-0.016 - -0.014)	-0.058(-0.058 - -0.057)	0.024(0.023 - 0.025)
7	0.017(0.016 - 0.018)	-0.000(-0.001 - -0.001)	0.005(0.005 - 0.006)	-0.018(-0.019 - -0.017)	-0.024(-0.025 - -0.023)	0.007(0.006 - 0.008)
8	0.012(0.011 - 0.013)	0.007(0.006 - 0.009)	0.006(0.006 - 0.007)	-0.024(-0.025 - -0.024)	-0.009(-0.010 - -0.008)	0.013(0.012 - 0.014)
9	0.016(0.015 - 0.017)	0.008(0.007 - 0.009)	0.003(0.002 - 0.003)	-0.014(-0.015 - -0.013)	-0.016(-0.017 - -0.015)	0.017(0.016 - 0.018)
10	0.001(-0.000 - 0.002)	-0.005(-0.006 - -0.004)	0.007(0.007 - 0.008)	0.004(0.003 - 0.005)	-0.005(-0.006 - -0.004)	-0.007(-0.008 - -0.006)
11	0.002(0.001 - 0.003)	-0.001(-0.002 - 0.000)	0.021(0.020 - 0.021)	-0.013(-0.014 - -0.012)	-0.003(-0.004 - -0.002)	0.004(0.003 - 0.005)
12	-0.001(-0.002 - -0.000)	0.002(0.001 - 0.003)	0.013(0.012 - 0.013)	0.003(0.002 - 0.005)	-0.010(-0.011 - -0.009)	0.001(0.000 - 0.003)
13	0.024(0.023 - 0.025)	0.017(0.016 - 0.018)	-0.001(-0.001 - -0.000)	-0.004(-0.005 - -0.003)	-0.005(-0.006 - -0.004)	0.023(0.022 - 0.025)
14	0.029(0.027 - 0.030)	0.002(0.001 - 0.003)	-0.005(-0.006 - -0.005)	-0.007(-0.008 - -0.005)	-0.005(-0.006 - -0.004)	0.020(0.019 - 0.021)
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2	0.014(0.013 - 0.015)	0.018(0.017 - 0.019)	0.007(0.007 - 0.007)	-0.003(-0.003 - -0.002)	-0.005(-0.005 - -0.004)	-0.001(-0.002 - -0.000)
3	-0.010(-0.011 - -0.009)	0.006(0.006 - 0.007)	0.005(0.004 - 0.005)	-0.009(-0.009 - -0.008)	-0.008(-0.008 - -0.007)	0.015(0.015 - 0.016)
4	-0.001(-0.002 - 0.000)	-0.000(-0.001 - 0.000)	0.010(0.009 - 0.010)	-0.012(-0.013 - -0.011)	0.005(0.004 - 0.005)	-0.005(-0.006 - -0.004)
5	0.000(-0.001 - 0.001)	-0.000(-0.001 - 0.000)	0.017(0.017 - 0.018)	-0.009(-0.010 - -0.008)	-0.001(-0.002 - -0.000)	-0.016(-0.017 - -0.015)
6	-0.012(-0.013 - -0.011)	0.013(0.012 - 0.014)	0.020(0.019 - 0.020)	-0.025(-0.026 - -0.025)	0.003(0.003 - 0.004)	-0.001(-0.002 - -0.000)
7	0.009(0.008 - 0.010)	0.015(0.014 - 0.016)	0.023(0.022 - 0.023)	-0.013(-0.013 - -0.012)	-0.002(-0.002 - -0.001)	-0.020(-0.021 - -0.019)
8	-0.019(-0.020 - -0.018)	0.012(0.011 - 0.013)	0.022(0.021 - 0.023)	-0.006(-0.007 - -0.006)	-0.018(-0.019 - -0.017)	-0.009(-0.009 - -0.008)
9	-0.003(-0.004 - -0.002)	0.007(0.006 - 0.008)	0.004(0.004 - 0.005)	-0.006(-0.007 - -0.005)	-0.000(-0.001 - 0.000)	0.001(0.001 - 0.002)
10	-0.013(-0.014 - -0.012)	-0.000(-0.001 - 0.001)	0.016(0.015 - 0.017)	-0.013(-0.014 - -0.013)	-0.003(-0.003 - -0.002)	-0.006(-0.007 - -0.005)
11	-0.029(-0.030 - -0.028)	-0.019(-0.020 - -0.018)	0.030(0.029 - 0.031)	-0.014(-0.014 - -0.013)	-0.028(-0.029 - -0.027)	-0.001(-0.002 - -0.000)
12	-0.030(-0.031 - -0.029)	-0.007(-0.008 - -0.006)	0.035(0.034 - 0.035)	-0.016(-0.017 - -0.016)	-0.031(-0.032 - -0.031)	-0.005(-0.006 - -0.004)
13	-0.018(-0.019 - -0.017)	-0.004(-0.005 - -0.003)	0.011(0.010 - 0.012)	0.005(0.005 - 0.006)	-0.012(-0.013 - -0.011)	-0.016(-0.017 - -0.015)

14	-0.011(-0.012 - -0.009)	0.008(0.007 - 0.009)	0.017(0.017 - 0.018)	-0.014(-0.015 - -0.014)	-0.008(-0.009 - -0.006)	-0.003(-0.005 - -0.002)
	Ethnicity: W. Brit.	Ethnicity: Mixed	Ethnicity: Indian	Ethnicity: Pakistani	Ethnicity: Bangladeshi	Ethnicity: Caribbean
2	0.011(0.011 - 0.012)	0.010(0.010 - 0.011)	0.014(0.014 - 0.015)	0.017(0.016 - 0.018)	-0.042(-0.043 - -0.041)	0.015(0.015 - 0.016)
3	0.028(0.027 - 0.029)	0.014(0.013 - 0.015)	0.011(0.010 - 0.011)	0.011(0.010 - 0.011)	-0.048(-0.049 - -0.047)	0.015(0.014 - 0.016)
4	0.020(0.019 - 0.021)	0.018(0.017 - 0.018)	0.002(0.001 - 0.003)	-0.009(-0.010 - -0.008)	-0.019(-0.020 - -0.018)	0.009(0.009 - 0.010)
5	0.025(0.024 - 0.026)	0.019(0.018 - 0.020)	0.007(0.006 - 0.007)	-0.016(-0.016 - -0.015)	-0.036(-0.037 - -0.035)	0.012(0.011 - 0.013)
6	0.018(0.017 - 0.019)	-0.007(-0.008 - -0.006)	0.018(0.017 - 0.018)	-0.007(-0.008 - -0.006)	-0.000(-0.001 - 0.001)	0.008(0.007 - 0.009)
7	0.015(0.014 - 0.016)	-0.007(-0.008 - -0.006)	0.020(0.019 - 0.021)	0.004(0.003 - 0.005)	-0.026(-0.027 - -0.025)	0.007(0.007 - 0.008)
8	0.021(0.020 - 0.022)	0.015(0.014 - 0.016)	0.025(0.025 - 0.026)	-0.018(-0.019 - -0.017)	-0.005(-0.006 - -0.004)	0.008(0.007 - 0.009)
9	0.001(0.000 - 0.002)	0.015(0.014 - 0.016)	0.021(0.020 - 0.022)	-0.021(-0.022 - -0.020)	-0.007(-0.008 - -0.006)	0.009(0.008 - 0.010)
10	0.020(0.018 - 0.021)	0.013(0.012 - 0.014)	-0.004(-0.005 - -0.003)	0.001(-0.000 - 0.001)	-0.013(-0.014 - -0.012)	0.005(0.004 - 0.007)
11	0.012(0.011 - 0.013)	-0.008(-0.009 - -0.007)	0.008(0.007 - 0.009)	-0.041(-0.042 - -0.040)	0.009(0.008 - 0.010)	0.021(0.020 - 0.022)
12	0.038(0.037 - 0.040)	0.006(0.005 - 0.008)	0.019(0.018 - 0.020)	-0.031(-0.032 - -0.030)	-0.015(-0.016 - -0.014)	0.012(0.011 - 0.013)
13	0.016(0.015 - 0.017)	0.010(0.009 - 0.011)	0.018(0.017 - 0.019)	0.004(0.003 - 0.005)	-0.028(-0.029 - -0.027)	0.008(0.006 - 0.009)
14	0.023(0.022 - 0.024)	0.000(-0.001 - 0.002)	0.010(0.009 - 0.011)	0.002(0.001 - 0.003)	-0.019(-0.020 - -0.018)	-0.008(-0.009 - -0.007)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2	-0.018(-0.019 - -0.018)	-0.000(-0.001 - 0.000)	0.034(0.034 - 0.034)	0.019(0.018 - 0.020)	0.006(0.005 - 0.007)	0.008(0.007 - 0.009)
3	-0.019(-0.020 - -0.019)	0.003(0.002 - 0.004)	0.031(0.030 - 0.031)	0.021(0.020 - 0.022)	0.017(0.016 - 0.018)	0.009(0.009 - 0.010)
4	-0.024(-0.025 - -0.023)	0.017(0.016 - 0.018)	0.013(0.013 - 0.013)	0.013(0.012 - 0.013)	0.002(0.002 - 0.003)	0.013(0.012 - 0.014)
5	-0.009(-0.010 - -0.008)	0.014(0.013 - 0.015)	0.027(0.026 - 0.027)	0.008(0.007 - 0.009)	-0.010(-0.011 - -0.009)	0.007(0.006 - 0.008)
6	-0.031(-0.032 - -0.030)	0.003(0.003 - 0.004)	0.001(0.001 - 0.001)	0.015(0.014 - 0.015)	0.012(0.011 - 0.013)	0.019(0.018 - 0.020)
7	-0.009(-0.010 - -0.008)	-0.003(-0.004 - -0.002)	0.012(0.012 - 0.012)	0.013(0.012 - 0.014)	-0.006(-0.007 - -0.005)	0.004(0.003 - 0.005)
8	-0.031(-0.032 - -0.030)	-0.006(-0.007 - -0.005)	0.006(0.006 - 0.007)	-0.012(-0.012 - -0.011)	0.001(0.000 - 0.002)	0.006(0.005 - 0.007)
9	-0.010(-0.011 - -0.009)	-0.005(-0.006 - -0.004)	0.002(0.001 - 0.002)	0.015(0.014 - 0.016)	-0.006(-0.007 - -0.005)	0.009(0.008 - 0.010)
10	-0.010(-0.011 - -0.009)	-0.001(-0.002 - -0.000)	0.016(0.015 - 0.016)	0.001(-0.000 - 0.002)	-0.002(-0.003 - -0.001)	-0.004(-0.006 - -0.003)
11	-0.020(-0.021 - -0.019)	0.033(0.032 - 0.034)	0.028(0.028 - 0.029)	-0.007(-0.008 - -0.006)	0.005(0.004 - 0.006)	0.023(0.021 - 0.024)
12	-0.041(-0.042 - -0.040)	0.025(0.024 - 0.026)	0.014(0.013 - 0.014)	0.003(0.002 - 0.004)	0.020(0.019 - 0.021)	0.005(0.004 - 0.006)
13	-0.043(-0.044 - -0.042)	0.016(0.015 - 0.017)	0.018(0.017 - 0.018)	-0.010(-0.011 - -0.009)	-0.016(-0.017 - -0.014)	-0.007(-0.008 - -0.006)
14	-0.034(-0.035 - -0.032)	0.027(0.026 - 0.028)	0.011(0.011 - 0.012)	0.004(0.003 - 0.006)	0.006(0.005 - 0.008)	-0.000(-0.002 - 0.001)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2	-0.056(-0.057 - -0.056)	0.023(0.022 - 0.023)	0.041(0.040 - 0.041)	-0.043(-0.044 - -0.043)	-0.005(-0.006 - -0.004)	0.017(0.017 - 0.018)
3	-0.058(-0.058 - -0.057)	0.030(0.029 - 0.030)	0.044(0.043 - 0.044)	-0.053(-0.053 - -0.052)	0.039(0.038 - 0.040)	0.015(0.015 - 0.016)
4	-0.037(-0.038 - -0.037)	0.005(0.004 - 0.006)	0.021(0.021 - 0.022)	-0.022(-0.022 - -0.021)	0.017(0.016 - 0.018)	0.004(0.004 - 0.005)
5	-0.050(-0.050 - -0.049)	0.007(0.006 - 0.008)	0.004(0.004 - 0.005)	-0.008(-0.008 - -0.007)	0.024(0.024 - 0.025)	0.015(0.014 - 0.016)
6	-0.026(-0.027 - -0.026)	0.005(0.004 - 0.006)	0.006(0.006 - 0.007)	-0.009(-0.010 - -0.009)	0.011(0.010 - 0.012)	-0.000(-0.001 - 0.001)
7	-0.035(-0.036 - -0.035)	0.007(0.006 - 0.007)	0.017(0.016 - 0.017)	-0.020(-0.020 - -0.019)	0.020(0.019 - 0.021)	-0.003(-0.004 - -0.002)
8	-0.010(-0.010 - -0.009)	0.006(0.005 - 0.007)	0.007(0.007 - 0.008)	-0.011(-0.012 - -0.010)	0.015(0.014 - 0.016)	-0.017(-0.018 - -0.016)
9	-0.017(-0.018 - -0.016)	0.034(0.033 - 0.035)	-0.014(-0.015 - -0.013)	-0.009(-0.010 - -0.009)	0.032(0.031 - 0.033)	-0.014(-0.015 - -0.013)
10	-0.033(-0.034 - -0.032)	0.009(0.009 - 0.010)	-0.004(-0.004 - -0.003)	-0.003(-0.004 - -0.002)	0.024(0.023 - 0.025)	-0.011(-0.012 - -0.010)
11	-0.077(-0.078 - -0.076)	0.011(0.010 - 0.011)	0.010(0.009 - 0.010)	-0.017(-0.018 - -0.016)	0.013(0.012 - 0.014)	-0.001(-0.002 - -0.000)
12	-0.064(-0.065 - -0.063)	0.022(0.021 - 0.023)	0.003(0.003 - 0.004)	-0.020(-0.021 - -0.020)	0.043(0.042 - 0.045)	0.006(0.004 - 0.007)
13	-0.035(-0.036 - -0.034)	0.031(0.030 - 0.032)	0.020(0.019 - 0.020)	-0.044(-0.045 - -0.044)	-0.002(-0.003 - -0.001)	-0.001(-0.002 - 0.000)
14	-0.050(-0.051 - -0.049)	0.002(0.001 - 0.003)	0.017(0.017 - 0.018)	-0.020(-0.020 - -0.019)	-0.004(-0.005 - -0.003)	0.000(-0.001 - 0.002)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2	0.001(0.000 - 0.002)	0.035(0.034 - 0.035)	-0.037(-0.037 - -0.037)
3	0.020(0.019 - 0.021)	0.023(0.023 - 0.024)	-0.054(-0.054 - -0.053)
4	0.020(0.019 - 0.021)	0.015(0.014 - 0.016)	-0.032(-0.032 - -0.031)
5	0.020(0.019 - 0.021)	0.008(0.007 - 0.008)	-0.033(-0.033 - -0.032)
6	0.025(0.024 - 0.026)	0.025(0.024 - 0.025)	-0.036(-0.036 - -0.035)
7	0.005(0.004 - 0.006)	0.026(0.025 - 0.026)	-0.028(-0.029 - -0.028)
8	0.020(0.019 - 0.021)	0.033(0.032 - 0.034)	-0.033(-0.033 - -0.032)
9	0.015(0.014 - 0.016)	0.025(0.025 - 0.026)	-0.032(-0.033 - -0.032)
10	0.008(0.007 - 0.009)	0.044(0.043 - 0.045)	-0.041(-0.041 - -0.040)
11	0.022(0.020 - 0.023)	0.011(0.010 - 0.012)	-0.022(-0.023 - -0.021)
12	0.019(0.018 - 0.021)	0.016(0.015 - 0.016)	-0.037(-0.038 - -0.036)
13	0.030(0.029 - 0.031)	-0.002(-0.003 - -0.001)	-0.009(-0.009 - -0.008)
14	0.023(0.021 - 0.024)	0.021(0.020 - 0.022)	-0.019(-0.019 - -0.018)

Table 10: EMBS sample covariate category CV_ss and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2	<i>0.016(0.009 - 0.024)</i>	<i>0.018(0.009 - 0.026)</i>	<i>0.034(0.025 - 0.044)</i>	<i>0.019(0.013 - 0.024)</i>	<i>0.023(0.014 - 0.031)</i>	<i>0.012(0.006 - 0.018)</i>
3	<i>0.011(0.003 - 0.019)</i>	<i>0.011(0.003 - 0.020)</i>	<i>0.025(0.016 - 0.034)</i>	<i>0.014(0.008 - 0.020)</i>	<i>0.014(0.007 - 0.021)</i>	<i>0.013(0.005 - 0.020)</i>
4	<i>0.008(0.001 - 0.016)</i>	<i>0.008(0.001 - 0.016)</i>	<i>0.017(0.008 - 0.026)</i>	<i>0.008(0.003 - 0.014)</i>	<i>0.012(0.004 - 0.020)</i>	<i>0.011(0.003 - 0.018)</i>
5	0.007(-0.000 - 0.013)	0.007(-0.000 - 0.014)	<i>0.015(0.007 - 0.022)</i>	<i>0.006(0.001 - 0.011)</i>	<i>0.007(0.001 - 0.012)</i>	<i>0.009(0.002 - 0.016)</i>
6	<i>0.009(0.000 - 0.018)</i>	<i>0.009(0.000 - 0.017)</i>	<i>0.018(0.009 - 0.027)</i>	<i>0.009(0.003 - 0.016)</i>	<i>0.011(0.003 - 0.019)</i>	<i>0.012(0.004 - 0.021)</i>
7	0.003(-0.006 - 0.013)	0.003(-0.006 - 0.013)	<i>0.027(0.018 - 0.036)</i>	<i>0.019(0.012 - 0.026)</i>	<i>0.012(0.008 - 0.017)</i>	<i>0.010(0.005 - 0.016)</i>
8	0.004(-0.005 - 0.012)	0.004(-0.005 - 0.012)	<i>0.016(0.007 - 0.024)</i>	<i>0.007(0.001 - 0.013)</i>	<i>0.008(0.002 - 0.013)</i>	<i>0.014(0.006 - 0.021)</i>
9	<i>0.013(0.004 - 0.022)</i>	<i>0.013(0.004 - 0.022)</i>	<i>0.017(0.006 - 0.028)</i>	0.007(-0.001 - 0.014)	<i>0.010(0.001 - 0.020)</i>	0.008(-0.001 - 0.017)
10	0.007(-0.001 - 0.016)	0.007(-0.001 - 0.016)	<i>0.017(0.007 - 0.027)</i>	<i>0.007(0.000 - 0.013)</i>	<i>0.010(0.002 - 0.019)</i>	<i>0.010(0.001 - 0.018)</i>
11	<i>0.008(0.000 - 0.016)</i>	<i>0.008(0.000 - 0.016)</i>	<i>0.014(0.005 - 0.024)</i>	<i>0.007(0.000 - 0.013)</i>	<i>0.007(0.000 - 0.013)</i>	<i>0.016(0.007 - 0.024)</i>
12	0.005(-0.005 - 0.016)	0.005(-0.005 - 0.016)	0.008(-0.003 - 0.020)	0.006(-0.006 - 0.018)	0.005(-0.006 - 0.015)	<i>0.012(0.000 - 0.023)</i>
13	0.006(-0.003 - 0.015)	0.006(-0.003 - 0.016)	0.011(-0.000 - 0.022)	0.006(-0.004 - 0.015)	0.005(-0.003 - 0.014)	0.009(-0.000 - 0.018)
14	0.009(-0.001 - 0.018)	0.009(-0.001 - 0.018)	0.008(-0.003 - 0.020)	0.005(-0.007 - 0.017)	0.005(-0.006 - 0.015)	0.006(-0.003 - 0.014)
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2	<i>0.014(0.006 - 0.022)</i>	0.004(-0.000 - 0.009)	0.008(-0.000 - 0.015)	0.010(-0.000 - 0.020)	0.010(-0.000 - 0.020)	0.003(-0.004 - 0.010)
3	<i>0.007(0.001 - 0.012)</i>	<i>0.007(0.001 - 0.014)</i>	<i>0.007(0.000 - 0.013)</i>	0.007(-0.003 - 0.017)	0.008(-0.002 - 0.017)	<i>0.005(0.000 - 0.009)</i>
4	0.005(-0.002 - 0.013)	0.003(-0.003 - 0.009)	0.002(-0.010 - 0.014)	0.002(-0.012 - 0.016)	0.001(-0.025 - 0.027)	0.002(-0.007 - 0.010)
5	0.004(-0.003 - 0.012)	0.003(-0.003 - 0.009)	0.002(-0.009 - 0.013)	0.003(-0.010 - 0.015)	0.002(-0.015 - 0.018)	0.002(-0.007 - 0.010)
6	0.007(-0.001 - 0.015)	0.003(-0.003 - 0.008)	<i>0.010(0.002 - 0.018)</i>	0.005(-0.003 - 0.013)	0.010(-0.000 - 0.019)	0.004(-0.002 - 0.009)
7	<i>0.008(0.001 - 0.015)</i>	0.003(-0.004 - 0.009)	<i>0.009(0.000 - 0.017)</i>	0.006(-0.004 - 0.015)	0.008(-0.001 - 0.018)	0.002(-0.005 - 0.008)
8	<i>0.008(0.001 - 0.014)</i>	0.001(-0.006 - 0.008)	<i>0.010(0.004 - 0.016)</i>	<i>0.011(0.002 - 0.020)</i>	<i>0.011(0.002 - 0.019)</i>	0.002(-0.002 - 0.006)
9	0.006(-0.004 - 0.016)	0.004(-0.005 - 0.012)	0.004(-0.006 - 0.014)	0.005(-0.008 - 0.018)	0.006(-0.007 - 0.018)	0.000(-0.041 - 0.042)
10	0.005(-0.004 - 0.014)	0.001(-0.015 - 0.017)	<i>0.009(0.001 - 0.016)</i>	0.004(-0.005 - 0.013)	0.009(-0.001 - 0.019)	0.004(-0.004 - 0.012)
11	0.005(-0.002 - 0.012)	0.002(-0.008 - 0.012)	<i>0.008(0.002 - 0.014)</i>	0.008(-0.002 - 0.017)	<i>0.009(0.000 - 0.017)</i>	0.002(-0.005 - 0.009)
12	0.003(-0.008 - 0.015)	0.001(-0.011 - 0.014)	0.007(-0.001 - 0.015)	0.006(-0.004 - 0.017)	0.003(-0.015 - 0.021)	0.003(-0.003 - 0.010)
13	0.007(-0.001 - 0.016)	0.003(-0.007 - 0.013)	0.005(-0.005 - 0.015)	0.003(-0.010 - 0.015)	0.004(-0.008 - 0.017)	0.001(-0.017 - 0.019)
14	<i>0.013(0.004 - 0.021)</i>	0.006(-0.004 - 0.016)	0.008(-0.002 - 0.017)	0.003(-0.010 - 0.015)	0.006(-0.007 - 0.018)	0.004(-0.002 - 0.011)
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2	0.007(-0.001 - 0.015)	0.005(-0.003 - 0.012)	0.004(-0.006 - 0.013)	0.004(-0.007 - 0.014)	0.007(-0.003 - 0.018)	0.006(-0.007 - 0.019)
3	0.007(-0.000 - 0.015)	0.005(-0.001 - 0.010)	<i>0.007(0.000 - 0.014)</i>	<i>0.007(0.000 - 0.014)</i>	0.007(-0.002 - 0.016)	<i>0.016(0.006 - 0.026)</i>
4	0.003(-0.006 - 0.011)	0.002(-0.011 - 0.015)	0.002(-0.011 - 0.015)	0.004(-0.007 - 0.015)	0.004(-0.007 - 0.014)	0.002(-0.014 - 0.019)
5	0.001(-0.018 - 0.020)	0.002(-0.007 - 0.012)	0.004(-0.005 - 0.013)	0.002(-0.010 - 0.014)	0.002(-0.013 - 0.016)	0.004(-0.007 - 0.016)
6	0.008(-0.000 - 0.016)	0.006(-0.002 - 0.013)	0.004(-0.005 - 0.014)	0.006(-0.004 - 0.017)	0.003(-0.009 - 0.015)	0.007(-0.005 - 0.019)
7	0.003(-0.005 - 0.011)	0.005(-0.002 - 0.013)	0.008(-0.001 - 0.016)	0.004(-0.005 - 0.012)	0.004(-0.006 - 0.013)	0.007(-0.005 - 0.018)
8	<i>0.009(0.002 - 0.015)</i>	<i>0.007(0.000 - 0.014)</i>	<i>0.011(0.004 - 0.019)</i>	<i>0.007(0.002 - 0.012)</i>	<i>0.014(0.005 - 0.022)</i>	0.005(-0.003 - 0.014)
9	0.003(-0.006 - 0.013)	0.003(-0.010 - 0.016)	0.003(-0.010 - 0.017)	0.003(-0.015 - 0.020)	0.003(-0.015 - 0.020)	0.004(-0.012 - 0.020)
10	0.005(-0.003 - 0.012)	0.005(-0.002 - 0.013)	0.005(-0.005 - 0.015)	0.005(-0.006 - 0.017)	0.002(-0.014 - 0.018)	0.002(-0.019 - 0.023)
11	0.006(-0.000 - 0.013)	0.008(-0.000 - 0.015)	0.008(-0.001 - 0.016)	0.006(-0.003 - 0.015)	0.006(-0.003 - 0.015)	0.003(-0.008 - 0.015)
12	<i>0.009(0.002 - 0.017)</i>	0.004(-0.006 - 0.013)	<i>0.012(0.003 - 0.022)</i>	0.008(-0.000 - 0.017)	<i>0.013(0.002 - 0.025)</i>	0.005(-0.006 - 0.016)
13	0.003(-0.004 - 0.011)	0.002(-0.015 - 0.019)	0.005(-0.004 - 0.014)	0.007(-0.004 - 0.017)	0.008(-0.003 - 0.019)	0.007(-0.007 - 0.020)

14	0.003(-0.009 - 0.014) Ethnicity: W. Brit.	0.003(-0.009 - 0.015) Ethnicity: Mixed	0.007(-0.004 - 0.018) Ethnicity: Indian	0.005(-0.007 - 0.018) Ethnicity: Pakistani	0.005(-0.007 - 0.018) Ethnicity: Bangladeshi	0.003(-0.017 - 0.023) Ethnicity: Caribbean
2	0.003(-0.017 - 0.022)	0.007(-0.005 - 0.020)	0.008(-0.003 - 0.019)	0.013(0.002 - 0.024)	0.015(0.003 - 0.027)	0.004(-0.007 - 0.015)
3	0.013(0.002 - 0.024)	0.008(-0.004 - 0.020)	0.006(-0.005 - 0.016)	0.006(-0.004 - 0.017)	0.011(-0.001 - 0.023)	0.004(-0.006 - 0.015)
4	0.009(-0.002 - 0.019)	0.011(0.001 - 0.021)	0.005(-0.004 - 0.013)	0.006(-0.004 - 0.015)	0.004(-0.005 - 0.014)	0.005(-0.004 - 0.013)
5	0.013(0.005 - 0.021)	0.011(0.002 - 0.020)	0.006(-0.002 - 0.013)	0.006(-0.001 - 0.014)	0.012(0.002 - 0.022)	0.004(-0.003 - 0.012)
6	0.009(-0.003 - 0.022)	0.007(-0.006 - 0.019)	0.011(0.001 - 0.022)	0.005(-0.005 - 0.015)	0.010(-0.001 - 0.021)	0.005(-0.004 - 0.014)
7	0.007(-0.004 - 0.017)	0.004(-0.011 - 0.018)	0.009(-0.001 - 0.019)	0.004(-0.007 - 0.014)	0.006(-0.005 - 0.018)	0.004(-0.008 - 0.016)
8	0.013(0.004 - 0.021)	0.014(0.004 - 0.023)	0.015(0.007 - 0.024)	0.010(0.002 - 0.017)	0.007(0.001 - 0.013)	0.008(0.000 - 0.015)
9	0.003(-0.017 - 0.024)	0.011(-0.002 - 0.024)	0.011(-0.000 - 0.023)	0.014(0.001 - 0.026)	0.008(-0.005 - 0.020)	0.003(-0.013 - 0.020)
10	0.010(-0.000 - 0.021)	0.010(-0.001 - 0.022)	0.007(-0.003 - 0.018)	0.006(-0.005 - 0.017)	0.004(-0.009 - 0.016)	0.004(-0.008 - 0.016)
11	0.006(-0.005 - 0.016)	0.010(-0.001 - 0.021)	0.007(0.001 - 0.014)	0.017(0.007 - 0.027)	0.019(0.009 - 0.028)	0.010(0.001 - 0.018)
12	0.023(0.013 - 0.033)	0.007(-0.003 - 0.017)	0.013(0.003 - 0.023)	0.016(0.005 - 0.027)	0.011(0.003 - 0.018)	0.007(-0.001 - 0.016)
13	0.008(-0.004 - 0.020)	0.007(-0.004 - 0.019)	0.007(-0.002 - 0.016)	0.008(-0.002 - 0.017)	0.009(-0.002 - 0.021)	0.006(-0.003 - 0.014)
14	0.012(0.001 - 0.023)	0.005(-0.006 - 0.017)	0.006(-0.003 - 0.015)	0.008(-0.003 - 0.018)	0.007(-0.003 - 0.018)	0.007(-0.004 - 0.017)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2	0.010(-0.002 - 0.022)	0.005(-0.006 - 0.016)	0.028(0.019 - 0.036)	0.014(0.004 - 0.024)	0.005(-0.003 - 0.013)	0.005(-0.003 - 0.012)
3	0.008(-0.003 - 0.020)	0.004(-0.007 - 0.015)	0.020(0.013 - 0.027)	0.014(0.005 - 0.023)	0.012(0.003 - 0.020)	0.007(-0.002 - 0.015)
4	0.015(0.005 - 0.026)	0.011(0.001 - 0.021)	0.015(0.008 - 0.021)	0.015(0.001 - 0.016)	0.003(-0.005 - 0.012)	0.008(-0.000 - 0.017)
5	0.009(-0.001 - 0.019)	0.008(-0.000 - 0.017)	0.021(0.015 - 0.028)	0.009(0.002 - 0.016)	0.007(-0.001 - 0.015)	0.005(-0.001 - 0.011)
6	0.023(0.009 - 0.036)	0.006(-0.005 - 0.016)	0.012(0.007 - 0.018)	0.011(0.002 - 0.019)	0.008(-0.002 - 0.017)	0.011(0.002 - 0.020)
7	0.005(-0.009 - 0.018)	0.006(-0.006 - 0.018)	0.012(0.005 - 0.019)	0.008(0.000 - 0.017)	0.004(-0.006 - 0.014)	0.004(-0.004 - 0.013)
8	0.023(0.012 - 0.035)	0.012(0.002 - 0.022)	0.005(-0.002 - 0.012)	0.007(-0.004 - 0.018)	0.004(-0.008 - 0.015)	0.005(-0.002 - 0.012)
9	0.006(-0.009 - 0.020)	0.009(-0.005 - 0.023)	0.007(-0.000 - 0.015)	0.007(-0.003 - 0.018)	0.005(-0.009 - 0.018)	0.005(-0.004 - 0.015)
10	0.007(-0.005 - 0.020)	0.009(-0.004 - 0.021)	0.011(0.003 - 0.020)	0.002(-0.011 - 0.015)	0.003(-0.011 - 0.016)	0.003(-0.008 - 0.014)
11	0.017(0.005 - 0.029)	0.014(0.005 - 0.024)	0.024(0.016 - 0.031)	0.008(0.001 - 0.015)	0.004(-0.003 - 0.011)	0.014(0.007 - 0.021)
12	0.029(0.015 - 0.044)	0.013(0.002 - 0.024)	0.017(0.010 - 0.025)	0.006(-0.002 - 0.013)	0.009(-0.001 - 0.019)	0.006(-0.001 - 0.014)
13	0.022(0.008 - 0.036)	0.010(-0.002 - 0.021)	0.015(0.006 - 0.023)	0.006(-0.003 - 0.015)	0.007(-0.003 - 0.018)	0.004(-0.005 - 0.013)
14	0.021(0.007 - 0.036)	0.014(0.003 - 0.024)	0.016(0.007 - 0.024)	0.003(-0.010 - 0.016)	0.005(-0.003 - 0.013)	0.004(-0.004 - 0.012)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2	0.037(0.027 - 0.047)	0.009(0.001 - 0.018)	0.016(0.007 - 0.025)	0.018(0.009 - 0.026)	0.006(-0.002 - 0.013)	0.011(0.002 - 0.020)
3	0.030(0.021 - 0.039)	0.015(0.008 - 0.023)	0.021(0.013 - 0.028)	0.026(0.018 - 0.034)	0.025(0.017 - 0.033)	0.015(0.007 - 0.023)
4	0.022(0.013 - 0.031)	0.003(-0.006 - 0.012)	0.010(0.002 - 0.018)	0.010(0.002 - 0.018)	0.007(-0.000 - 0.015)	0.006(-0.003 - 0.014)
5	0.029(0.020 - 0.038)	0.002(-0.013 - 0.016)	0.001(-0.017 - 0.019)	0.002(-0.012 - 0.015)	0.009(0.002 - 0.015)	0.007(-0.000 - 0.014)
6	0.019(0.009 - 0.029)	0.003(-0.009 - 0.016)	0.002(-0.011 - 0.016)	0.003(-0.009 - 0.015)	0.005(-0.004 - 0.015)	0.004(-0.007 - 0.014)
7	0.018(0.008 - 0.028)	0.002(-0.009 - 0.014)	0.007(-0.002 - 0.016)	0.007(-0.002 - 0.015)	0.010(0.002 - 0.018)	0.004(-0.008 - 0.015)
8	0.003(-0.007 - 0.014)	0.002(-0.013 - 0.017)	0.002(-0.012 - 0.015)	0.003(-0.008 - 0.014)	0.009(0.002 - 0.016)	0.011(0.002 - 0.020)
9	0.008(-0.003 - 0.019)	0.020(0.010 - 0.029)	0.013(0.005 - 0.022)	0.007(0.001 - 0.013)	0.016(0.008 - 0.025)	0.011(0.000 - 0.022)
10	0.014(0.004 - 0.024)	0.009(-0.000 - 0.018)	0.008(-0.001 - 0.017)	0.004(-0.004 - 0.012)	0.013(0.006 - 0.021)	0.009(-0.000 - 0.018)
11	0.033(0.022 - 0.043)	0.006(-0.003 - 0.015)	0.004(-0.004 - 0.012)	0.005(-0.004 - 0.014)	0.005(-0.003 - 0.012)	0.002(-0.015 - 0.019)
12	0.028(0.016 - 0.039)	0.011(0.000 - 0.022)	0.007(-0.002 - 0.017)	0.006(-0.004 - 0.015)	0.021(0.014 - 0.029)	0.008(-0.001 - 0.016)
13	0.017(0.005 - 0.030)	0.010(0.001 - 0.018)	0.010(0.002 - 0.018)	0.014(0.005 - 0.024)	0.003(-0.010 - 0.016)	0.003(-0.010 - 0.017)
14	0.023(0.011 - 0.035)	0.006(-0.007 - 0.018)	0.006(-0.004 - 0.017)	0.003(-0.008 - 0.015)	0.003(-0.008 - 0.015)	0.002(-0.012 - 0.016)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2	0.009(-0.000 - 0.019)	0.018(0.009 - 0.027)	0.018(0.009 - 0.027)
3	0.008(0.004 - 0.013)	0.016(0.010 - 0.022)	0.030(0.022 - 0.038)
4	0.005(-0.003 - 0.013)	0.010(0.003 - 0.018)	0.015(0.008 - 0.023)
5	0.003(-0.004 - 0.010)	0.007(0.001 - 0.013)	0.012(0.005 - 0.019)
6	0.005(-0.005 - 0.014)	0.011(0.002 - 0.020)	0.014(0.005 - 0.023)
7	0.006(-0.003 - 0.014)	0.006(-0.002 - 0.014)	0.008(0.001 - 0.014)
8	0.006(-0.000 - 0.011)	0.017(0.010 - 0.024)	0.016(0.009 - 0.023)
9	0.006(-0.001 - 0.013)	0.015(0.006 - 0.024)	0.018(0.010 - 0.027)
10	0.007(0.002 - 0.012)	0.020(0.012 - 0.027)	0.022(0.015 - 0.030)
11	0.006(-0.002 - 0.013)	0.004(-0.004 - 0.012)	0.007(-0.000 - 0.015)
12	0.007(0.001 - 0.013)	0.011(0.005 - 0.016)	0.019(0.011 - 0.027)
13	0.007(-0.002 - 0.016)	0.004(-0.008 - 0.015)	0.004(-0.005 - 0.013)
14	0.005(-0.006 - 0.015)	0.009(-0.001 - 0.018)	0.009(-0.000 - 0.018)

Table 11: IEMBS sample covariate category CV_{us} and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2						
3						
4						
5						
6						
7	<i>-0.041(-0.041 - -0.040)</i>	<i>0.038(0.037 - 0.038)</i>	<i>-0.072(-0.073 - -0.071)</i>	<i>0.020(0.019 - 0.020)</i>	<i>0.033(0.033 - 0.034)</i>	<i>0.015(0.014 - 0.016)</i>
8	<i>-0.022(-0.023 - -0.022)</i>	<i>0.020(0.019 - 0.020)</i>	<i>-0.058(-0.058 - -0.057)</i>	<i>0.006(0.005 - 0.006)</i>	<i>0.002(0.001 - 0.003)</i>	<i>0.008(0.007 - 0.009)</i>
9	<i>-0.017(-0.018 - -0.017)</i>	<i>0.015(0.015 - 0.016)</i>	<i>-0.038(-0.038 - -0.037)</i>	<i>-0.015(-0.016 - -0.014)</i>	<i>-0.001(-0.002 - -0.001)</i>	<i>0.022(0.021 - 0.023)</i>
10	<i>-0.004(-0.005 - -0.003)</i>	<i>0.004(0.003 - 0.004)</i>	<i>-0.037(-0.038 - -0.036)</i>	<i>-0.010(-0.011 - -0.009)</i>	<i>0.023(0.022 - 0.024)</i>	<i>-0.003(-0.004 - -0.001)</i>
11	<i>-0.018(-0.019 - -0.017)</i>	<i>0.016(0.015 - 0.016)</i>	<i>-0.010(-0.011 - -0.009)</i>	<i>-0.012(-0.013 - -0.011)</i>	<i>0.014(0.013 - 0.015)</i>	<i>0.006(0.005 - 0.007)</i>
12	<i>-0.014(-0.015 - -0.013)</i>	<i>0.012(0.011 - 0.013)</i>	<i>-0.047(-0.048 - -0.046)</i>	<i>0.001(-0.000 - 0.002)</i>	<i>0.028(0.027 - 0.029)</i>	<i>0.016(0.015 - 0.017)</i>
13	<i>-0.007(-0.007 - -0.006)</i>	<i>0.006(0.005 - 0.006)</i>	<i>-0.044(-0.045 - -0.043)</i>	<i>0.007(0.005 - 0.008)</i>	<i>0.000(-0.001 - 0.001)</i>	<i>0.013(0.012 - 0.014)</i>
14	<i>-0.010(-0.011 - -0.009)</i>	<i>0.009(0.008 - 0.009)</i>	<i>-0.038(-0.039 - -0.037)</i>	<i>0.028(0.026 - 0.029)</i>	<i>0.013(0.011 - 0.014)</i>	<i>-0.007(-0.008 - -0.006)</i>
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2						
3						
4						
5						
6						
7	<i>0.022(0.021 - 0.023)</i>	<i>0.017(0.016 - 0.018)</i>	<i>-0.009(-0.009 - -0.008)</i>	<i>-0.015(-0.015 - -0.014)</i>	<i>-0.038(-0.038 - -0.037)</i>	<i>0.030(0.029 - 0.031)</i>
8	<i>0.055(0.054 - 0.056)</i>	<i>0.037(0.035 - 0.038)</i>	<i>-0.001(-0.001 - 0.000)</i>	<i>-0.014(-0.015 - -0.013)</i>	<i>-0.045(-0.046 - -0.045)</i>	<i>0.052(0.051 - 0.053)</i>
9	<i>0.035(0.034 - 0.036)</i>	<i>0.034(0.033 - 0.036)</i>	<i>-0.005(-0.006 - -0.005)</i>	<i>-0.016(-0.017 - -0.015)</i>	<i>-0.027(-0.028 - -0.026)</i>	<i>0.054(0.053 - 0.056)</i>
10	<i>0.019(0.017 - 0.020)</i>	<i>0.030(0.029 - 0.032)</i>	<i>0.002(0.001 - 0.003)</i>	<i>-0.025(-0.026 - -0.024)</i>	<i>-0.021(-0.022 - -0.020)</i>	<i>0.043(0.042 - 0.044)</i>
11	<i>-0.002(-0.004 - -0.001)</i>	<i>0.007(0.006 - 0.009)</i>	<i>0.006(0.006 - 0.007)</i>	<i>-0.011(-0.012 - -0.010)</i>	<i>0.004(0.003 - 0.005)</i>	<i>0.029(0.028 - 0.030)</i>
12	<i>0.006(0.005 - 0.008)</i>	<i>0.001(-0.000 - 0.003)</i>	<i>-0.002(-0.002 - -0.001)</i>	<i>0.024(0.022 - 0.025)</i>	<i>-0.022(-0.023 - -0.021)</i>	<i>0.012(0.010 - 0.013)</i>
13	<i>0.024(0.023 - 0.026)</i>	<i>0.015(0.014 - 0.017)</i>	<i>-0.009(-0.010 - -0.008)</i>	<i>-0.015(-0.017 - -0.014)</i>	<i>-0.011(-0.013 - -0.010)</i>	<i>0.035(0.033 - 0.037)</i>
14	<i>0.002(0.001 - 0.004)</i>	<i>0.009(0.007 - 0.011)</i>	<i>0.002(0.001 - 0.002)</i>	<i>0.013(0.012 - 0.015)</i>	<i>-0.031(-0.032 - -0.029)</i>	<i>0.021(0.019 - 0.022)</i>
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2						
3						
4						
5						
6						
7	<i>0.011(0.010 - 0.012)</i>	<i>0.037(0.036 - 0.038)</i>	<i>0.010(0.009 - 0.011)</i>	<i>0.044(0.043 - 0.044)</i>	<i>0.013(0.012 - 0.014)</i>	<i>-0.035(-0.035 - -0.034)</i>
8	<i>0.000(-0.001 - 0.001)</i>	<i>0.012(0.011 - 0.013)</i>	<i>0.010(0.009 - 0.011)</i>	<i>0.013(0.012 - 0.014)</i>	<i>-0.007(-0.008 - -0.006)</i>	<i>-0.014(-0.015 - -0.013)</i>
9	<i>-0.021(-0.022 - -0.020)</i>	<i>0.007(0.006 - 0.008)</i>	<i>0.026(0.025 - 0.026)</i>	<i>-0.020(-0.021 - -0.019)</i>	<i>-0.014(-0.015 - -0.013)</i>	<i>-0.001(-0.002 - -0.000)</i>
10	<i>-0.013(-0.014 - -0.012)</i>	<i>-0.003(-0.004 - -0.002)</i>	<i>0.019(0.018 - 0.020)</i>	<i>-0.020(-0.021 - -0.019)</i>	<i>-0.021(-0.022 - -0.020)</i>	<i>0.009(0.008 - 0.009)</i>
11	<i>-0.039(-0.040 - -0.038)</i>	<i>-0.015(-0.016 - -0.014)</i>	<i>0.031(0.030 - 0.032)</i>	<i>0.002(0.001 - 0.003)</i>	<i>-0.022(-0.023 - -0.021)</i>	<i>-0.020(-0.021 - -0.019)</i>
12	<i>-0.016(-0.017 - -0.015)</i>	<i>-0.001(-0.003 - -0.000)</i>	<i>0.040(0.039 - 0.041)</i>	<i>-0.022(-0.023 - -0.021)</i>	<i>-0.002(-0.003 - -0.001)</i>	<i>-0.024(-0.025 - -0.023)</i>
13	<i>0.002(0.001 - 0.004)</i>	<i>0.006(0.005 - 0.008)</i>	<i>0.016(0.015 - 0.017)</i>	<i>-0.009(-0.010 - -0.008)</i>	<i>0.007(0.005 - 0.008)</i>	<i>-0.015(-0.016 - -0.014)</i>

14	-0.026(-0.027 - -0.025) Ethnicity: W. Brit.	0.007(0.005 - 0.008) Ethnicity: Mixed	0.018(0.017 - 0.019) Ethnicity: Indian	-0.024(-0.025 - -0.023) Ethnicity: Pakistani	-0.008(-0.009 - -0.006) Ethnicity: Bangladeshi	0.004(0.003 - 0.005) Ethnicity: Caribbean
2						
3						
4						
5						
6						
7	0.001(-0.000 - 0.001)	0.005(0.004 - 0.006)	0.044(0.043 - 0.045)	0.045(0.044 - 0.046)	-0.007(-0.008 - -0.006)	-0.007(-0.007 - -0.006)
8	0.047(0.046 - 0.048)	0.000(-0.001 - 0.001)	0.003(0.002 - 0.004)	0.012(0.011 - 0.012)	-0.013(-0.014 - -0.012)	0.014(0.013 - 0.015)
9	0.037(0.035 - 0.038)	0.003(0.002 - 0.004)	0.015(0.014 - 0.015)	0.026(0.025 - 0.027)	0.001(-0.001 - 0.002)	-0.000(-0.001 - 0.001)
10	0.046(0.045 - 0.047)	0.009(0.007 - 0.010)	0.014(0.013 - 0.015)	-0.005(-0.006 - -0.004)	-0.009(-0.010 - -0.008)	0.001(0.000 - 0.003)
11	0.027(0.026 - 0.029)	-0.002(-0.003 - -0.001)	0.060(0.058 - 0.061)	-0.032(-0.033 - -0.031)	-0.035(-0.036 - -0.034)	0.013(0.011 - 0.014)
12	0.044(0.043 - 0.046)	0.007(0.006 - 0.009)	-0.007(-0.008 - -0.005)	-0.028(-0.029 - -0.027)	-0.021(-0.022 - -0.019)	0.012(0.010 - 0.013)
13	-0.010(-0.012 - -0.009)	0.005(0.003 - 0.006)	0.028(0.027 - 0.029)	0.015(0.014 - 0.016)	0.022(0.020 - 0.023)	0.004(0.002 - 0.005)
14	0.023(0.022 - 0.025)	0.015(0.014 - 0.017)	0.022(0.021 - 0.023)	0.002(0.001 - 0.004)	-0.026(-0.027 - -0.024)	-0.014(-0.016 - -0.013)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2						
3						
4						
5						
6						
7	-0.020(-0.020 - -0.019)	-0.050(-0.050 - -0.049)	0.001(0.001 - 0.002)	0.017(0.016 - 0.018)	0.014(0.013 - 0.015)	0.015(0.014 - 0.016)
8	-0.055(-0.056 - -0.054)	-0.003(-0.004 - -0.002)	0.004(0.004 - 0.004)	0.009(0.008 - 0.010)	0.020(0.019 - 0.022)	-0.020(-0.021 - -0.019)
9	-0.037(-0.038 - -0.036)	-0.036(-0.036 - -0.035)	-0.000(-0.001 - 0.000)	-0.011(-0.012 - -0.010)	-0.001(-0.002 - 0.000)	0.019(0.018 - 0.021)
10	-0.046(-0.047 - -0.045)	-0.007(-0.008 - -0.006)	0.012(0.011 - 0.012)	-0.001(-0.002 - 0.000)	0.017(0.016 - 0.019)	0.009(0.008 - 0.011)
11	-0.059(-0.060 - -0.058)	0.005(0.004 - 0.006)	0.017(0.017 - 0.018)	0.002(0.001 - 0.003)	-0.020(-0.021 - -0.019)	0.023(0.021 - 0.024)
12	-0.031(-0.032 - -0.030)	0.019(0.018 - 0.020)	0.002(0.002 - 0.003)	0.002(0.001 - 0.003)	0.029(0.028 - 0.031)	0.001(-0.001 - 0.002)
13	-0.039(-0.040 - -0.037)	-0.027(-0.029 - -0.026)	0.013(0.012 - 0.013)	0.004(0.003 - 0.006)	-0.013(-0.015 - -0.012)	-0.001(-0.003 - 0.000)
14	-0.037(-0.038 - -0.035)	-0.007(-0.008 - -0.006)	0.007(0.006 - 0.008)	0.008(0.006 - 0.009)	-0.002(-0.004 - -0.001)	0.007(0.005 - 0.008)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2						
3						
4						
5						
6						
7	-0.041(-0.042 - -0.040)	0.061(0.060 - 0.062)	0.035(0.034 - 0.035)	-0.054(-0.054 - -0.053)	-0.005(-0.006 - -0.004)	0.029(0.028 - 0.030)
8	-0.021(-0.022 - -0.021)	0.042(0.041 - 0.043)	0.029(0.028 - 0.029)	-0.045(-0.045 - -0.044)	0.001(0.000 - 0.002)	-0.019(-0.020 - -0.018)
9	-0.002(-0.003 - -0.001)	0.047(0.046 - 0.048)	0.023(0.022 - 0.024)	-0.047(-0.048 - -0.047)	0.010(0.009 - 0.011)	0.013(0.012 - 0.014)
10	-0.039(-0.040 - -0.038)	0.023(0.022 - 0.024)	0.023(0.022 - 0.024)	-0.035(-0.035 - -0.034)	0.020(0.019 - 0.022)	-0.014(-0.015 - -0.012)
11	-0.045(-0.046 - -0.044)	0.026(0.025 - 0.027)	0.054(0.053 - 0.055)	-0.064(-0.065 - -0.063)	0.022(0.021 - 0.023)	-0.023(-0.024 - -0.022)
12	-0.045(-0.047 - -0.044)	0.013(0.012 - 0.014)	0.019(0.018 - 0.020)	-0.028(-0.029 - -0.027)	0.020(0.019 - 0.022)	-0.036(-0.037 - -0.035)
13	-0.037(-0.038 - -0.036)	0.029(0.028 - 0.030)	0.029(0.028 - 0.030)	-0.054(-0.055 - -0.053)	0.002(0.000 - 0.003)	0.002(0.001 - 0.004)
14	-0.034(-0.036 - -0.033)	0.015(0.014 - 0.016)	0.030(0.029 - 0.031)	-0.044(-0.044 - -0.043)	0.012(0.010 - 0.013)	-0.030(-0.031 - -0.028)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2			
3			
4			
5			
6			
7	-0.014(-0.014 - -0.013)	0.058(0.057 - 0.058)	-0.048(-0.049 - -0.048)
8	0.012(0.011 - 0.012)	0.030(0.029 - 0.030)	-0.023(-0.024 - -0.023)
9	0.028(0.026 - 0.029)	0.005(0.004 - 0.006)	-0.030(-0.030 - -0.029)
10	0.050(0.049 - 0.051)	0.015(0.014 - 0.015)	-0.045(-0.046 - -0.045)
11	0.025(0.023 - 0.026)	0.030(0.029 - 0.031)	-0.041(-0.042 - -0.040)
12	0.029(0.028 - 0.030)	0.022(0.021 - 0.023)	-0.030(-0.031 - -0.029)
13	0.015(0.013 - 0.016)	0.002(0.001 - 0.003)	-0.011(-0.012 - -0.010)
14	-0.000(-0.001 - 0.001)	0.024(0.023 - 0.025)	-0.015(-0.016 - -0.014)

Table 12: IEMBS sample covariate category CV_s and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2						
3						
4						
5						
6						
7	<i>0.022(0.011 - 0.032)</i>	<i>0.023(0.012 - 0.035)</i>	<i>0.030(0.017 - 0.043)</i>	<i>0.012(0.004 - 0.019)</i>	<i>0.021(0.008 - 0.033)</i>	<i>0.014(0.002 - 0.025)</i>
8	<i>0.013(0.003 - 0.023)</i>	<i>0.014(0.004 - 0.025)</i>	<i>0.019(0.007 - 0.032)</i>	<i>0.009(0.002 - 0.016)</i>	<i>0.011(0.003 - 0.018)</i>	<i>0.010(0.002 - 0.019)</i>
9	0.010(-0.001 - 0.021)	0.010(-0.001 - 0.022)	0.013(-0.000 - 0.027)	0.012(-0.001 - 0.024)	0.009(-0.002 - 0.019)	<i>0.018(0.005 - 0.031)</i>
10	0.005(-0.006 - 0.016)	0.005(-0.007 - 0.017)	0.010(-0.002 - 0.022)	<i>0.010(0.001 - 0.020)</i>	<i>0.016(0.005 - 0.027)</i>	0.006(-0.004 - 0.015)
11	<i>0.013(0.003 - 0.023)</i>	<i>0.013(0.003 - 0.023)</i>	0.006(-0.004 - 0.016)	0.012(-0.001 - 0.024)	0.012(-0.000 - 0.024)	0.008(-0.002 - 0.018)
12	0.009(-0.003 - 0.022)	0.009(-0.004 - 0.022)	<i>0.018(0.003 - 0.033)</i>	0.009(-0.003 - 0.022)	<i>0.015(0.001 - 0.029)</i>	0.011(-0.002 - 0.025)
13	0.004(-0.009 - 0.016)	0.004(-0.009 - 0.017)	<i>0.020(0.007 - 0.033)</i>	0.007(-0.002 - 0.017)	0.008(-0.000 - 0.017)	<i>0.011(0.000 - 0.022)</i>
14	0.005(-0.006 - 0.016)	0.005(-0.006 - 0.016)	<i>0.013(0.001 - 0.024)</i>	<i>0.011(0.001 - 0.021)</i>	0.009(-0.000 - 0.019)	0.008(-0.002 - 0.017)
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2						
3						
4						
5						
6						
7	0.006(-0.007 - 0.019)	0.002(-0.018 - 0.022)	0.007(-0.004 - 0.018)	0.009(-0.006 - 0.023)	0.004(-0.015 - 0.023)	0.005(-0.003 - 0.013)
8	<i>0.023(0.013 - 0.032)</i>	<i>0.005(0.001 - 0.009)</i>	0.005(-0.009 - 0.019)	0.002(-0.030 - 0.033)	0.005(-0.010 - 0.020)	0.002(-0.009 - 0.013)
9	0.010(-0.002 - 0.022)	0.004(-0.007 - 0.015)	0.008(-0.000 - 0.017)	0.006(-0.008 - 0.020)	0.002(-0.023 - 0.027)	0.007(-0.001 - 0.016)
10	0.002(-0.015 - 0.020)	0.002(-0.010 - 0.014)	0.008(-0.000 - 0.016)	0.009(-0.004 - 0.023)	0.006(-0.007 - 0.018)	0.007(-0.001 - 0.014)
11	<i>0.012(0.000 - 0.023)</i>	0.010(-0.001 - 0.021)	<i>0.011(0.004 - 0.018)</i>	0.004(-0.006 - 0.015)	0.005(-0.007 - 0.017)	<i>0.013(0.005 - 0.021)</i>
12	0.007(-0.007 - 0.020)	0.007(-0.008 - 0.022)	<i>0.014(0.003 - 0.026)</i>	<i>0.015(0.004 - 0.027)</i>	0.007(-0.009 - 0.022)	0.004(-0.010 - 0.018)
13	0.007(-0.001 - 0.015)	0.005(-0.004 - 0.014)	<i>0.013(0.002 - 0.024)</i>	0.006(-0.005 - 0.017)	0.008(-0.002 - 0.018)	<i>0.009(0.001 - 0.016)</i>
14	0.004(-0.009 - 0.017)	0.003(-0.008 - 0.013)	0.007(-0.000 - 0.014)	0.008(-0.001 - 0.017)	0.002(-0.013 - 0.017)	0.005(-0.002 - 0.012)
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2						
3						
4						
5						
6						
7	0.003(-0.009 - 0.015)	0.006(-0.007 - 0.019)	<i>0.012(0.003 - 0.020)</i>	<i>0.025(0.013 - 0.037)</i>	0.007(-0.005 - 0.018)	<i>0.022(0.011 - 0.032)</i>
8	0.001(-0.018 - 0.020)	0.001(-0.029 - 0.031)	0.009(-0.002 - 0.019)	<i>0.013(0.001 - 0.025)</i>	0.006(-0.009 - 0.022)	<i>0.013(0.001 - 0.024)</i>
9	0.009(-0.001 - 0.018)	0.004(-0.009 - 0.016)	<i>0.014(0.001 - 0.027)</i>	0.010(-0.004 - 0.023)	0.009(-0.007 - 0.024)	0.007(-0.004 - 0.017)
10	0.005(-0.001 - 0.011)	0.004(-0.006 - 0.014)	0.007(-0.004 - 0.019)	0.007(-0.005 - 0.019)	0.012(-0.001 - 0.025)	0.007(-0.003 - 0.018)
11	<i>0.013(0.003 - 0.023)</i>	0.007(-0.000 - 0.014)	0.011(-0.001 - 0.022)	0.006(-0.005 - 0.017)	0.008(-0.006 - 0.022)	0.010(-0.002 - 0.022)
12	0.004(-0.010 - 0.017)	0.006(-0.006 - 0.017)	<i>0.018(0.004 - 0.032)</i>	0.010(-0.005 - 0.024)	0.005(-0.014 - 0.023)	0.013(-0.001 - 0.027)
13	0.003(-0.005 - 0.011)	0.004(-0.005 - 0.013)	0.007(-0.004 - 0.019)	0.005(-0.007 - 0.017)	0.007(-0.007 - 0.021)	0.009(-0.003 - 0.022)

14	0.005(-0.001 - 0.010) Ethnicity: W. Brit.	0.003(-0.004 - 0.011) Ethnicity: Mixed	0.004(-0.008 - 0.016) Ethnicity: Indian	0.007(-0.005 - 0.020) Ethnicity: Pakistani	0.003(-0.013 - 0.019) Ethnicity: Bangladeshi	0.006(-0.007 - 0.018) Ethnicity: Caribbean
2						
3						
4						
5						
6						
7	0.011(-0.003 - 0.025) <i>0.019(0.007 - 0.032)</i>	0.005(-0.011 - 0.022) 0.006(-0.011 - 0.023)	<i>0.023(0.009 - 0.037)</i> 0.012(-0.001 - 0.025)	<i>0.021(0.007 - 0.035)</i> 0.008(-0.004 - 0.020)	0.005(-0.014 - 0.024) 0.006(-0.015 - 0.027)	0.013(-0.001 - 0.027) 0.008(-0.005 - 0.021)
8	0.012(-0.002 - 0.026) <i>0.017(0.006 - 0.027)</i>	0.007(-0.011 - 0.024) 0.007(-0.007 - 0.020)	0.009(-0.001 - 0.019) 0.007(-0.001 - 0.015)	<i>0.022(0.007 - 0.036)</i> 0.009(-0.001 - 0.020)	0.010(-0.006 - 0.027) 0.005(-0.011 - 0.020)	0.007(-0.007 - 0.022) 0.005(-0.007 - 0.017)
9	0.011(-0.002 - 0.021) <i>0.021(0.006 - 0.035)</i>	0.007(-0.005 - 0.019) 0.008(-0.012 - 0.027)	<i>0.028(0.017 - 0.039)</i> 0.010(-0.001 - 0.022)	<i>0.021(0.009 - 0.032)</i> 0.016(-0.001 - 0.033)	<i>0.015(0.001 - 0.029)</i> 0.008(-0.014 - 0.031)	0.010(-0.000 - 0.020) 0.008(-0.006 - 0.023)
10	0.012(-0.002 - 0.026) <i>0.015(0.002 - 0.028)</i>	0.007(-0.005 - 0.019) 0.008(-0.003 - 0.020)	0.013(-0.003 - 0.023) <i>0.013(0.003 - 0.023)</i>	<i>0.013(0.002 - 0.023)</i> <i>0.013(0.002 - 0.023)</i>	<i>0.018(0.008 - 0.028)</i> <i>0.018(0.008 - 0.028)</i>	0.008(-0.002 - 0.018) 0.008(-0.002 - 0.018)
11	0.011(-0.002 - 0.021) <i>0.012(0.001 - 0.023)</i>	0.007(-0.005 - 0.019) <i>0.015(0.002 - 0.029)</i>	0.010(-0.001 - 0.020) <i>0.015(0.002 - 0.029)</i>	0.009(-0.000 - 0.018) <i>0.015(0.002 - 0.029)</i>	0.009(-0.004 - 0.021) <i>0.015(0.002 - 0.029)</i>	0.007(-0.004 - 0.017) <i>0.015(0.002 - 0.029)</i>
12						
13						
14						
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2						
3						
4						
5						
6						
7	0.008(-0.004 - 0.020) <i>0.026(0.011 - 0.041)</i>	<i>0.019(0.006 - 0.032)</i> <i>0.014(0.002 - 0.025)</i>	<i>0.014(0.006 - 0.021)</i> <i>0.011(0.003 - 0.018)</i>	0.012(-0.001 - 0.025) 0.006(-0.007 - 0.019)	0.007(-0.005 - 0.020) 0.012(-0.000 - 0.023)	0.004(-0.009 - 0.016) <i>0.013(0.000 - 0.025)</i>
8	0.017(-0.002 - 0.033) <i>0.020(0.005 - 0.034)</i>	<i>0.019(0.005 - 0.033)</i> <i>0.010(0.000 - 0.019)</i>	0.006(-0.003 - 0.016) <i>0.011(0.003 - 0.020)</i>	0.006(-0.009 - 0.021) <i>0.011(0.003 - 0.020)</i>	0.002(-0.024 - 0.028) 0.004(-0.002 - 0.019)	0.009(-0.003 - 0.020) 0.004(-0.005 - 0.014)
9	0.023(-0.009 - 0.038) <i>0.014(-0.003 - 0.031)</i>	<i>0.016(0.007 - 0.026)</i> 0.013(-0.001 - 0.027)	<i>0.012(0.004 - 0.020)</i> <i>0.013(0.004 - 0.022)</i>	0.004(-0.006 - 0.015) 0.004(-0.009 - 0.018)	0.011(-0.000 - 0.022) <i>0.014(0.003 - 0.026)</i>	<i>0.011(0.001 - 0.021)</i> 0.003(-0.015 - 0.022)
10	0.014(-0.003 - 0.031) <i>0.018(0.003 - 0.032)</i>	0.013(-0.001 - 0.027) <i>0.018(0.006 - 0.029)</i>	<i>0.011(0.002 - 0.021)</i> <i>0.008(0.000 - 0.016)</i>	0.007(-0.003 - 0.017) 0.004(-0.005 - 0.014)	0.006(-0.004 - 0.016) 0.001(-0.017 - 0.020)	0.004(-0.008 - 0.015) 0.004(-0.003 - 0.012)
11	0.019(-0.002 - 0.035) GHQ-12: Not recorded	0.010(-0.001 - 0.021) Tenure: Owner occ.	0.008(0.000 - 0.016) Tenure: Mortgage	0.004(-0.005 - 0.014) Tenure: Rented / Other	0.001(-0.017 - 0.020) HH Str: 1adult	0.004(-0.003 - 0.012) HH Str: 1adult, kids
2						
3						
4						
5						
6						
7						
8	<i>0.023(0.010 - 0.036)</i> 0.011(-0.002 - 0.023)	<i>0.023(0.012 - 0.035)</i> 0.012(0.002 - 0.022)	<i>0.012(0.004 - 0.020)</i> 0.012(0.001 - 0.022)	<i>0.019(0.009 - 0.029)</i> <i>0.016(0.006 - 0.027)</i>	<i>0.010(0.003 - 0.017)</i> 0.006(-0.006 - 0.017)	<i>0.018(0.006 - 0.030)</i> 0.005(-0.007 - 0.017)
9	0.003(-0.016 - 0.022) <i>0.014(0.003 - 0.026)</i>	<i>0.013(0.002 - 0.024)</i> 0.005(-0.006 - 0.016)	<i>0.013(0.002 - 0.023)</i> 0.007(-0.004 - 0.018)	<i>0.018(0.006 - 0.029)</i> 0.009(-0.002 - 0.019)	0.010(-0.003 - 0.022) <i>0.013(0.004 - 0.023)</i>	<i>0.016(0.005 - 0.028)</i> 0.005(-0.006 - 0.016)
10	0.011(-0.001 - 0.022) <i>0.018(0.004 - 0.031)</i>	0.008(0.002 - 0.015) 0.007(-0.008 - 0.021)	<i>0.019(0.009 - 0.029)</i> 0.006(-0.007 - 0.019)	<i>0.022(0.011 - 0.032)</i> 0.009(-0.004 - 0.023)	<i>0.017(0.007 - 0.027)</i> 0.009(-0.003 - 0.020)	0.008(-0.002 - 0.018) <i>0.013(0.001 - 0.026)</i>
11	0.018(0.004 - 0.031) <i>0.014(0.002 - 0.026)</i>	0.007(-0.008 - 0.021) 0.006(-0.000 - 0.013)	0.006(-0.007 - 0.019) <i>0.016(0.006 - 0.026)</i>	0.009(-0.004 - 0.023) <i>0.019(0.008 - 0.031)</i>	0.009(-0.003 - 0.020) 0.005(-0.007 - 0.016)	<i>0.013(0.001 - 0.026)</i> 0.007(-0.003 - 0.017)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2			
3			
4			
5			
6			
7	<i>0.016(0.004 - 0.028)</i>	<i>0.034(0.022 - 0.047)</i>	<i>0.033(0.021 - 0.045)</i>
8	0.012(-0.001 - 0.026)	0.021(0.009 - 0.033)	0.014(0.004 - 0.024)
9	0.006(-0.006 - 0.018)	0.012(0.003 - 0.021)	0.023(0.011 - 0.035)
10	<i>0.015(0.006 - 0.025)</i>	<i>0.010(0.003 - 0.018)</i>	<i>0.021(0.011 - 0.032)</i>
11	0.008(-0.000 - 0.016)	<i>0.015(0.006 - 0.025)</i>	<i>0.022(0.012 - 0.032)</i>
12	0.010(-0.003 - 0.023)	<i>0.010(0.000 - 0.020)</i>	<i>0.014(0.003 - 0.024)</i>
13	0.002(-0.019 - 0.023)	0.004(-0.008 - 0.015)	0.006(-0.004 - 0.016)
14	0.007(-0.004 - 0.018)	0.005(-0.006 - 0.016)	0.007(-0.000 - 0.014)

Table 13: BHPS sample covariate category CV_{us} and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2						
3	<i>-0.011(-0.012 - -0.011)</i>	<i>0.010(0.010 - 0.010)</i>	<i>-0.044(-0.045 - -0.044)</i>	<i>0.002(0.001 - 0.002)</i>	<i>0.003(0.002 - 0.003)</i>	<i>0.013(0.012 - 0.013)</i>
4	<i>-0.007(-0.007 - -0.006)</i>	<i>0.006(0.006 - 0.006)</i>	<i>-0.033(-0.034 - -0.033)</i>	<i>-0.001(-0.002 - -0.001)</i>	<i>0.007(0.007 - 0.008)</i>	<i>0.006(0.005 - 0.006)</i>
5	<i>-0.003(-0.003 - -0.002)</i>	<i>0.002(0.002 - 0.003)</i>	<i>-0.036(-0.037 - -0.036)</i>	<i>0.002(0.001 - 0.002)</i>	<i>0.002(0.001 - 0.002)</i>	<i>0.007(0.006 - 0.007)</i>
6	<i>-0.002(-0.002 - -0.002)</i>	<i>0.002(0.001 - 0.002)</i>	<i>-0.048(-0.048 - -0.047)</i>	<i>-0.002(-0.002 - -0.001)</i>	<i>0.011(0.010 - 0.011)</i>	<i>0.011(0.011 - 0.012)</i>
7	<i>-0.006(-0.007 - -0.006)</i>	<i>0.006(0.006 - 0.006)</i>	<i>-0.043(-0.043 - -0.042)</i>	<i>-0.006(-0.007 - -0.006)</i>	<i>0.006(0.005 - 0.006)</i>	<i>0.012(0.011 - 0.013)</i>
8	<i>-0.004(-0.004 - -0.004)</i>	<i>0.004(0.003 - 0.004)</i>	<i>-0.042(-0.042 - -0.041)</i>	<i>-0.005(-0.006 - -0.005)</i>	<i>-0.003(-0.003 - -0.002)</i>	<i>0.016(0.016 - 0.017)</i>
9	<i>-0.006(-0.006 - -0.005)</i>	<i>0.005(0.005 - 0.006)</i>	<i>-0.041(-0.042 - -0.041)</i>	<i>-0.014(-0.014 - -0.013)</i>	<i>-0.005(-0.006 - -0.005)</i>	<i>0.019(0.018 - 0.019)</i>
10	<i>-0.003(-0.004 - -0.003)</i>	<i>0.003(0.003 - 0.004)</i>	<i>-0.038(-0.038 - -0.037)</i>	<i>-0.007(-0.008 - -0.007)</i>	<i>-0.005(-0.005 - -0.004)</i>	<i>0.014(0.014 - 0.015)</i>
11	<i>-0.005(-0.005 - -0.004)</i>	<i>0.004(0.004 - 0.005)</i>	<i>-0.035(-0.035 - -0.034)</i>	<i>-0.006(-0.007 - -0.005)</i>	<i>0.001(0.000 - 0.001)</i>	<i>0.010(0.009 - 0.010)</i>
12	<i>-0.011(-0.011 - -0.010)</i>	<i>0.010(0.009 - 0.010)</i>	<i>-0.022(-0.023 - -0.021)</i>	<i>-0.001(-0.001 - -0.000)</i>	<i>-0.003(-0.004 - -0.003)</i>	<i>0.018(0.017 - 0.018)</i>
13	<i>-0.004(-0.004 - -0.003)</i>	<i>0.004(0.003 - 0.004)</i>	<i>-0.038(-0.039 - -0.038)</i>	<i>-0.008(-0.008 - -0.007)</i>	<i>0.007(0.006 - 0.007)</i>	<i>0.014(0.014 - 0.015)</i>
14	<i>-0.002(-0.002 - -0.001)</i>	<i>0.002(0.001 - 0.002)</i>	<i>-0.034(-0.034 - -0.033)</i>	<i>-0.004(-0.004 - -0.003)</i>	<i>-0.002(-0.002 - -0.001)</i>	<i>0.011(0.010 - 0.011)</i>
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2						
3	<i>0.021(0.021 - 0.022)</i>	<i>0.011(0.011 - 0.012)</i>	<i>-0.001(-0.002 - -0.001)</i>	<i>-0.021(-0.022 - -0.021)</i>	<i>-0.022(-0.022 - -0.021)</i>	<i>0.023(0.023 - 0.023)</i>
4	<i>0.021(0.020 - 0.021)</i>	<i>0.004(0.003 - 0.004)</i>	<i>-0.002(-0.002 - -0.001)</i>	<i>-0.015(-0.016 - -0.015)</i>	<i>-0.014(-0.015 - -0.014)</i>	<i>0.013(0.013 - 0.013)</i>
5	<i>0.019(0.018 - 0.019)</i>	<i>0.011(0.010 - 0.011)</i>	<i>-0.001(-0.001 - -0.001)</i>	<i>-0.019(-0.020 - -0.019)</i>	<i>-0.018(-0.019 - -0.018)</i>	<i>0.018(0.018 - 0.018)</i>
6	<i>0.019(0.019 - 0.020)</i>	<i>0.011(0.011 - 0.012)</i>	<i>0.002(0.002 - 0.002)</i>	<i>-0.017(-0.018 - -0.017)</i>	<i>-0.030(-0.031 - -0.030)</i>	<i>0.021(0.021 - 0.022)</i>
7	<i>0.022(0.021 - 0.022)</i>	<i>0.011(0.010 - 0.011)</i>	<i>-0.001(-0.001 - -0.001)</i>	<i>-0.010(-0.010 - -0.009)</i>	<i>-0.025(-0.026 - -0.024)</i>	<i>0.018(0.017 - 0.018)</i>
8	<i>0.022(0.021 - 0.022)</i>	<i>0.013(0.012 - 0.013)</i>	<i>-0.006(-0.006 - -0.005)</i>	<i>-0.015(-0.015 - -0.014)</i>	<i>-0.027(-0.028 - -0.027)</i>	<i>0.023(0.023 - 0.024)</i>
9	<i>0.023(0.023 - 0.024)</i>	<i>0.017(0.017 - 0.018)</i>	<i>-0.006(-0.007 - -0.006)</i>	<i>-0.012(-0.012 - -0.011)</i>	<i>-0.019(-0.020 - -0.019)</i>	<i>0.026(0.025 - 0.026)</i>
10	<i>0.022(0.021 - 0.023)</i>	<i>0.012(0.011 - 0.013)</i>	<i>-0.005(-0.005 - -0.005)</i>	<i>-0.008(-0.008 - -0.007)</i>	<i>-0.020(-0.020 - -0.019)</i>	<i>0.021(0.020 - 0.021)</i>
11	<i>0.023(0.022 - 0.023)</i>	<i>0.006(0.005 - 0.007)</i>	<i>-0.005(-0.005 - -0.004)</i>	<i>-0.011(-0.012 - -0.010)</i>	<i>-0.017(-0.018 - -0.017)</i>	<i>0.016(0.015 - 0.016)</i>
12	<i>0.022(0.021 - 0.022)</i>	<i>-0.014(-0.014 - -0.013)</i>	<i>0.010(0.009 - 0.010)</i>	<i>-0.012(-0.012 - -0.011)</i>	<i>-0.008(-0.009 - -0.007)</i>	<i>-0.000(-0.001 - 0.000)</i>
13	<i>0.026(0.026 - 0.027)</i>	<i>-0.004(-0.004 - -0.003)</i>	<i>0.005(0.005 - 0.005)</i>	<i>-0.015(-0.015 - -0.014)</i>	<i>-0.020(-0.020 - -0.019)</i>	<i>0.011(0.011 - 0.012)</i>
14	<i>0.015(0.015 - 0.016)</i>	<i>0.010(0.009 - 0.010)</i>	<i>-0.005(-0.006 - -0.005)</i>	<i>-0.007(-0.008 - -0.006)</i>	<i>-0.015(-0.015 - -0.014)</i>	<i>0.020(0.019 - 0.020)</i>
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2						
3	<i>-0.005(-0.006 - -0.005)</i>	<i>0.003(0.002 - 0.003)</i>	<i>-0.010(-0.010 - -0.009)</i>	<i>-0.032(-0.033 - -0.032)</i>	<i>-0.006(-0.006 - -0.005)</i>	<i>0.011(0.011 - 0.011)</i>
4	<i>0.006(0.005 - 0.006)</i>	<i>0.001(0.001 - 0.002)</i>	<i>-0.003(-0.003 - -0.002)</i>	<i>-0.021(-0.021 - -0.020)</i>	<i>-0.004(-0.004 - -0.003)</i>	<i>0.008(0.007 - 0.008)</i>
5	<i>0.004(0.003 - 0.005)</i>	<i>-0.002(-0.003 - -0.002)</i>	<i>-0.002(-0.003 - -0.002)</i>	<i>-0.027(-0.027 - -0.026)</i>	<i>-0.006(-0.007 - -0.006)</i>	<i>0.012(0.011 - 0.012)</i>
6	<i>0.000(-0.000 - 0.001)</i>	<i>-0.005(-0.005 - -0.004)</i>	<i>-0.008(-0.009 - -0.008)</i>	<i>-0.029(-0.030 - -0.029)</i>	<i>-0.004(-0.004 - -0.003)</i>	<i>0.014(0.014 - 0.015)</i>
7	<i>0.003(0.003 - 0.004)</i>	<i>-0.004(-0.005 - -0.004)</i>	<i>-0.004(-0.005 - -0.004)</i>	<i>-0.031(-0.032 - -0.031)</i>	<i>-0.003(-0.003 - -0.002)</i>	<i>0.014(0.014 - 0.015)</i>
8	<i>0.004(0.003 - 0.004)</i>	<i>0.003(0.003 - 0.004)</i>	<i>-0.006(-0.007 - -0.006)</i>	<i>-0.032(-0.032 - -0.031)</i>	<i>0.001(0.000 - 0.001)</i>	<i>0.014(0.014 - 0.015)</i>
9	<i>-0.004(-0.005 - -0.004)</i>	<i>-0.006(-0.007 - -0.005)</i>	<i>-0.001(-0.002 - -0.001)</i>	<i>-0.039(-0.040 - -0.039)</i>	<i>-0.003(-0.003 - -0.002)</i>	<i>0.018(0.018 - 0.018)</i>
10	<i>-0.004(-0.004 - -0.003)</i>	<i>-0.002(-0.003 - -0.002)</i>	<i>-0.001(-0.002 - -0.000)</i>	<i>-0.033(-0.033 - -0.032)</i>	<i>0.002(0.002 - 0.003)</i>	<i>0.012(0.012 - 0.013)</i>
11	<i>0.002(0.001 - 0.003)</i>	<i>0.003(0.002 - 0.004)</i>	<i>-0.013(-0.014 - -0.013)</i>	<i>-0.020(-0.021 - -0.019)</i>	<i>0.004(0.003 - 0.004)</i>	<i>0.013(0.012 - 0.013)</i>
12	<i>-0.020(-0.021 - -0.020)</i>	<i>0.003(0.002 - 0.004)</i>	<i>0.015(0.014 - 0.015)</i>	<i>-0.022(-0.023 - -0.022)</i>	<i>0.012(0.011 - 0.012)</i>	<i>-0.006(-0.006 - -0.005)</i>
13	<i>-0.006(-0.007 - -0.005)</i>	<i>-0.006(-0.007 - -0.005)</i>	<i>0.009(0.009 - 0.010)</i>	<i>-0.035(-0.035 - -0.034)</i>	<i>0.012(0.012 - 0.013)</i>	<i>0.002(0.002 - 0.003)</i>

14	-0.004(-0.005 - -0.003) Ethnicity: W. Brit.	-0.007(-0.008 - -0.006) Ethnicity: Mixed	-0.009(-0.009 - -0.008) Ethnicity: Indian	-0.019(-0.020 - -0.018) Ethnicity: Pakistani	0.013(0.013 - 0.014) Ethnicity: Bangladeshi	0.005(0.004 - 0.005) Ethnicity: Caribbean
2						
3	0.002(0.002 - 0.002)	-0.005(-0.005 - -0.004)	0.001(0.000 - 0.001)	-0.008(-0.008 - -0.007)	-0.001(-0.002 - -0.001)	0.005(0.005 - 0.006)
4	0.002(0.002 - 0.002)	-0.001(-0.002 - -0.000)	0.002(0.001 - 0.002)	-0.000(-0.001 - 0.001)	-0.020(-0.020 - -0.019)	0.006(0.006 - 0.007)
5	0.000(-0.000 - 0.000)	0.004(0.003 - 0.004)	-0.001(-0.001 - -0.000)	0.001(0.000 - 0.002)	0.003(0.002 - 0.004)	-0.002(-0.003 - -0.002)
6	0.001(0.001 - 0.001)	0.002(0.001 - 0.002)	0.003(0.002 - 0.003)	-0.004(-0.005 - -0.004)	-0.011(-0.012 - -0.011)	0.004(0.003 - 0.004)
7	0.001(0.001 - 0.001)	-0.002(-0.003 - -0.001)	-0.006(-0.007 - -0.006)	0.003(0.003 - 0.004)	0.003(0.002 - 0.004)	0.005(0.004 - 0.006)
8	0.001(0.001 - 0.002)	0.001(-0.000 - 0.001)	-0.008(-0.008 - -0.007)	-0.007(-0.008 - -0.007)	0.003(0.002 - 0.003)	-0.001(-0.001 - -0.000)
9	-0.000(-0.000 - 0.000)	0.000(-0.000 - 0.001)	0.004(0.003 - 0.005)	-0.003(-0.004 - -0.003)	0.003(0.002 - 0.004)	0.005(0.004 - 0.006)
10	0.000(0.000 - 0.000)	-0.005(-0.006 - -0.004)	0.002(0.001 - 0.002)	-0.006(-0.007 - -0.005)	0.002(0.001 - 0.003)	-0.003(-0.004 - -0.003)
11	0.001(0.001 - 0.002)	-0.009(-0.009 - -0.008)	0.002(0.001 - 0.003)	0.002(0.001 - 0.003)	0.003(0.002 - 0.003)	-0.005(-0.006 - -0.004)
12	0.002(0.002 - 0.002)	0.009(0.008 - 0.010)	-0.003(-0.004 - -0.002)	-0.003(-0.004 - -0.002)	0.004(0.003 - 0.005)	0.007(0.006 - 0.007)
13	0.001(0.001 - 0.001)	0.000(-0.000 - 0.001)	-0.013(-0.014 - -0.013)	0.004(0.003 - 0.005)	-0.007(-0.008 - -0.007)	-0.007(-0.007 - -0.006)
14	0.001(0.001 - 0.001)	-0.001(-0.002 - -0.001)	-0.010(-0.011 - -0.010)	0.002(0.002 - 0.003)	-0.004(-0.005 - -0.003)	-0.006(-0.006 - -0.005)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2						
3	-0.006(-0.006 - -0.005)	-0.005(-0.006 - -0.005)	0.015(0.015 - 0.015)	-0.000(-0.001 - 0.000)	0.006(0.005 - 0.006)	0.002(0.001 - 0.002)
4	-0.007(-0.008 - -0.007)	-0.006(-0.007 - -0.005)	0.005(0.005 - 0.005)	0.001(0.001 - 0.002)	0.002(0.001 - 0.003)	0.002(0.001 - 0.002)
5	0.001(0.001 - 0.002)	-0.003(-0.003 - -0.002)	0.012(0.012 - 0.012)	0.004(0.003 - 0.004)	0.004(0.004 - 0.005)	-0.001(-0.002 - -0.001)
6	-0.010(-0.011 - -0.010)	-0.004(-0.005 - -0.004)	0.009(0.009 - 0.009)	-0.002(-0.003 - -0.002)	-0.003(-0.003 - -0.002)	-0.008(-0.009 - -0.008)
7	-0.005(-0.006 - -0.005)	-0.004(-0.004 - -0.003)	0.003(0.003 - 0.003)	0.001(0.001 - 0.002)	-0.011(-0.012 - -0.010)	0.005(0.005 - 0.006)
8	0.001(0.000 - 0.002)	-0.002(-0.003 - -0.001)	0.006(0.006 - 0.006)	-0.004(-0.005 - -0.004)	-0.007(-0.008 - -0.006)	0.001(0.000 - 0.001)
9	0.005(0.004 - 0.006)	-0.005(-0.005 - -0.004)	0.006(0.005 - 0.006)	-0.006(-0.006 - -0.005)	-0.007(-0.007 - -0.006)	-0.003(-0.004 - -0.002)
10	-0.001(-0.002 - -0.001)	0.005(0.004 - 0.005)	0.008(0.007 - 0.008)	-0.006(-0.007 - -0.006)	-0.003(-0.004 - -0.002)	-0.006(-0.006 - -0.005)
11	0.001(0.000 - 0.002)	-0.006(-0.007 - -0.006)	0.009(0.008 - 0.009)	-0.009(-0.010 - -0.008)	-0.007(-0.007 - -0.006)	-0.004(-0.005 - -0.003)
12	-0.008(-0.008 - -0.007)	-0.015(-0.015 - -0.014)	0.015(0.015 - 0.015)	-0.001(-0.002 - -0.001)	-0.004(-0.004 - -0.003)	-0.010(-0.010 - -0.009)
13	0.006(0.005 - 0.007)	0.001(0.000 - 0.002)	0.005(0.005 - 0.006)	-0.003(-0.004 - -0.003)	0.001(0.000 - 0.001)	-0.004(-0.004 - -0.003)
14	-0.006(-0.007 - -0.006)	0.004(0.003 - 0.004)	0.008(0.008 - 0.009)	-0.000(-0.001 - 0.000)	-0.005(-0.006 - -0.004)	-0.010(-0.011 - -0.010)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2						
3	-0.043(-0.043 - -0.042)	0.022(0.022 - 0.022)	-0.001(-0.002 - -0.001)	-0.024(-0.024 - -0.024)	0.014(0.013 - 0.014)	-0.002(-0.003 - -0.002)
4	-0.017(-0.018 - -0.017)	0.015(0.015 - 0.015)	-0.001(-0.002 - -0.001)	-0.016(-0.017 - -0.016)	0.013(0.013 - 0.014)	0.001(-0.000 - 0.001)
5	-0.039(-0.039 - -0.038)	0.016(0.015 - 0.016)	-0.006(-0.006 - -0.006)	-0.011(-0.012 - -0.011)	0.011(0.010 - 0.011)	0.001(0.001 - 0.002)
6	-0.016(-0.017 - -0.015)	0.014(0.014 - 0.014)	-0.003(-0.003 - -0.002)	-0.014(-0.014 - -0.013)	0.014(0.013 - 0.014)	-0.006(-0.007 - -0.005)
7	-0.008(-0.009 - -0.008)	0.016(0.016 - 0.017)	0.000(-0.000 - 0.001)	-0.020(-0.021 - -0.020)	0.012(0.011 - 0.012)	-0.016(-0.016 - -0.015)
8	-0.013(-0.014 - -0.013)	0.020(0.020 - 0.020)	-0.012(-0.013 - -0.012)	-0.009(-0.010 - -0.009)	0.009(0.009 - 0.010)	-0.012(-0.013 - -0.012)
9	-0.007(-0.008 - -0.006)	0.023(0.022 - 0.023)	-0.007(-0.008 - -0.007)	-0.020(-0.020 - -0.019)	0.008(0.008 - 0.009)	-0.004(-0.005 - -0.003)
10	-0.018(-0.019 - -0.018)	0.022(0.022 - 0.022)	-0.010(-0.011 - -0.010)	-0.016(-0.016 - -0.015)	0.009(0.008 - 0.009)	-0.013(-0.014 - -0.013)
11	-0.014(-0.015 - -0.014)	0.019(0.018 - 0.019)	0.000(-0.000 - 0.001)	-0.026(-0.026 - -0.025)	0.003(0.002 - 0.003)	-0.008(-0.009 - -0.008)
12	-0.048(-0.049 - -0.048)	0.016(0.015 - 0.016)	0.005(0.005 - 0.005)	-0.030(-0.030 - -0.029)	0.002(0.001 - 0.003)	-0.008(-0.008 - -0.007)
13	-0.020(-0.021 - -0.020)	0.015(0.015 - 0.016)	0.006(0.005 - 0.006)	-0.031(-0.031 - -0.030)	0.002(0.001 - 0.002)	-0.026(-0.027 - -0.026)
14	-0.028(-0.029 - -0.028)	0.016(0.016 - 0.017)	-0.000(-0.001 - 0.000)	-0.024(-0.025 - -0.024)	-0.003(-0.003 - -0.002)	-0.013(-0.013 - -0.012)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2			
3	0.013(0.013 - 0.014)	-0.003(-0.003 - -0.003)	-0.020(-0.021 - -0.020)
4	0.006(0.006 - 0.006)	0.000(-0.000 - 0.001)	-0.016(-0.017 - -0.016)
5	0.016(0.016 - 0.017)	0.001(0.001 - 0.002)	-0.026(-0.026 - -0.025)
6	0.021(0.020 - 0.021)	-0.002(-0.002 - -0.001)	-0.028(-0.028 - -0.027)
7	0.014(0.014 - 0.015)	0.002(0.001 - 0.002)	-0.019(-0.020 - -0.019)
8	0.023(0.022 - 0.023)	-0.008(-0.008 - -0.008)	-0.019(-0.019 - -0.018)
9	0.024(0.024 - 0.025)	-0.013(-0.014 - -0.013)	-0.018(-0.018 - -0.017)
10	0.027(0.027 - 0.028)	-0.008(-0.009 - -0.008)	-0.023(-0.024 - -0.023)
11	0.021(0.020 - 0.021)	-0.000(-0.001 - 0.000)	-0.020(-0.021 - -0.020)
12	0.015(0.014 - 0.015)	0.002(0.001 - 0.002)	-0.015(-0.016 - -0.015)
13	0.028(0.028 - 0.029)	0.002(0.002 - 0.003)	-0.024(-0.025 - -0.024)
14	0.022(0.022 - 0.023)	0.002(0.002 - 0.003)	-0.020(-0.020 - -0.019)

Table 14: BHPS sample covariate category CV_cs and 95% CIs (in brackets) at each wave. Italics indicate significance.

Wave	Sex: Male	Sex: Female	Age: 16 to 29	Age: 30 to 39	Age: 40 to 49	Age: 50 to 59
2						
3	<i>0.008(0.003 - 0.013)</i>	<i>0.008(0.003 - 0.013)</i>	<i>0.020(0.014 - 0.026)</i>	<i>0.006(0.003 - 0.010)</i>	<i>0.007(0.003 - 0.010)</i>	<i>0.012(0.007 - 0.017)</i>
4	0.005(-0.001 - 0.010)	0.004(-0.001 - 0.009)	<i>0.017(0.011 - 0.023)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.008(0.003 - 0.012)</i>	<i>0.007(0.003 - 0.011)</i>
5	0.000(-0.062 - 0.062)	0.000(-0.061 - 0.061)	<i>0.016(0.011 - 0.022)</i>	<i>0.005(0.002 - 0.007)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.009(0.005 - 0.013)</i>
6	0.001(-0.007 - 0.010)	0.001(-0.007 - 0.010)	<i>0.020(0.013 - 0.026)</i>	<i>0.007(0.004 - 0.010)</i>	<i>0.010(0.005 - 0.015)</i>	<i>0.010(0.005 - 0.015)</i>
7	<i>0.006(0.001 - 0.011)</i>	<i>0.006(0.001 - 0.011)</i>	<i>0.018(0.012 - 0.024)</i>	<i>0.007(0.004 - 0.011)</i>	<i>0.008(0.004 - 0.011)</i>	<i>0.012(0.008 - 0.016)</i>
8	0.003(-0.002 - 0.009)	0.003(-0.002 - 0.008)	<i>0.015(0.010 - 0.021)</i>	<i>0.005(0.003 - 0.008)</i>	<i>0.005(0.003 - 0.008)</i>	<i>0.013(0.009 - 0.017)</i>
9	0.005(-0.000 - 0.010)	0.005(-0.000 - 0.010)	<i>0.015(0.009 - 0.021)</i>	<i>0.009(0.004 - 0.013)</i>	<i>0.008(0.005 - 0.010)</i>	<i>0.016(0.011 - 0.020)</i>
10	0.004(-0.001 - 0.010)	0.004(-0.001 - 0.009)	<i>0.013(0.007 - 0.019)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.006(0.003 - 0.009)</i>	<i>0.011(0.006 - 0.016)</i>
11	<i>0.005(0.000 - 0.011)</i>	<i>0.005(0.000 - 0.010)</i>	<i>0.011(0.006 - 0.017)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.005(0.002 - 0.008)</i>	<i>0.008(0.003 - 0.012)</i>
12	<i>0.010(0.005 - 0.016)</i>	<i>0.010(0.005 - 0.015)</i>	<i>0.010(0.004 - 0.016)</i>	<i>0.004(0.001 - 0.008)</i>	<i>0.007(0.002 - 0.012)</i>	<i>0.012(0.007 - 0.016)</i>
13	0.005(-0.001 - 0.011)	0.005(-0.001 - 0.011)	<i>0.013(0.007 - 0.019)</i>	<i>0.008(0.002 - 0.013)</i>	<i>0.008(0.003 - 0.013)</i>	<i>0.010(0.005 - 0.015)</i>
14	0.003(-0.002 - 0.009)	0.003(-0.002 - 0.009)	<i>0.012(0.005 - 0.018)</i>	<i>0.004(0.000 - 0.008)</i>	<i>0.004(0.001 - 0.008)</i>	<i>0.010(0.005 - 0.016)</i>
	Age: 60 to 69	Age: 70+	Actlw.: Employed	Actlw.: Unemployed	Actlw.: Student	Actlw.: Retired
2						
3	<i>0.008(0.004 - 0.013)</i>	<i>0.007(0.002 - 0.011)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.008(0.001 - 0.015)</i>	0.004(-0.002 - 0.010)	<i>0.004(0.001 - 0.008)</i>
4	<i>0.012(0.007 - 0.017)</i>	<i>0.006(0.002 - 0.010)</i>	0.003(-0.001 - 0.007)	0.006(-0.001 - 0.013)	0.004(-0.003 - 0.010)	0.001(-0.005 - 0.007)
5	<i>0.010(0.005 - 0.014)</i>	<i>0.003(0.000 - 0.007)</i>	0.003(-0.001 - 0.007)	<i>0.008(0.001 - 0.015)</i>	0.003(-0.004 - 0.009)	0.001(-0.006 - 0.007)
6	<i>0.007(0.002 - 0.011)</i>	<i>0.005(0.000 - 0.010)</i>	0.005(-0.000 - 0.010)	0.005(-0.003 - 0.013)	0.002(-0.007 - 0.011)	0.003(-0.001 - 0.008)
7	<i>0.011(0.007 - 0.015)</i>	<i>0.004(0.001 - 0.007)</i>	0.002(-0.004 - 0.008)	0.002(-0.024 - 0.026)	0.001(-0.016 - 0.018)	0.002(-0.003 - 0.006)
8	<i>0.007(0.003 - 0.011)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.005(0.001 - 0.009)</i>	0.006(-0.001 - 0.013)	0.002(-0.006 - 0.009)	<i>0.003(0.000 - 0.006)</i>
9	<i>0.009(0.005 - 0.013)</i>	<i>0.003(0.000 - 0.006)</i>	0.004(-0.002 - 0.009)	0.001(-0.010 - 0.013)	0.005(-0.002 - 0.012)	0.001(-0.006 - 0.007)
10	<i>0.008(0.004 - 0.013)</i>	<i>0.004(0.001 - 0.008)</i>	0.003(-0.002 - 0.009)	0.001(-0.014 - 0.016)	0.004(-0.004 - 0.011)	0.000(-0.010 - 0.011)
11	<i>0.011(0.007 - 0.015)</i>	<i>0.007(0.003 - 0.011)</i>	0.004(-0.000 - 0.008)	0.002(-0.006 - 0.010)	0.001(-0.010 - 0.012)	0.001(-0.002 - 0.005)
12	<i>0.016(0.011 - 0.022)</i>	<i>0.012(0.007 - 0.017)</i>	<i>0.005(0.001 - 0.010)</i>	0.004(-0.003 - 0.011)	0.005(-0.002 - 0.011)	0.002(-0.002 - 0.006)
13	<i>0.016(0.011 - 0.021)</i>	<i>0.013(0.008 - 0.018)</i>	0.003(-0.004 - 0.010)	0.003(-0.006 - 0.012)	0.002(-0.008 - 0.013)	0.002(-0.003 - 0.007)
14	<i>0.006(0.002 - 0.011)</i>	<i>0.006(0.001 - 0.011)</i>	<i>0.006(0.001 - 0.011)</i>	0.002(-0.005 - 0.010)	0.002(-0.009 - 0.012)	<i>0.005(0.001 - 0.010)</i>
	Actlw.: Ill / Imp	Actlw.: Other	Quals: Degree	Quals: Below Degree	Quals: Non-acad./None	Quals: Not Recorded
2						
3	0.004(-0.002 - 0.010)	0.004(-0.001 - 0.009)	0.004(-0.004 - 0.011)	<i>0.012(0.005 - 0.019)</i>	0.004(-0.001 - 0.008)	<i>0.008(0.004 - 0.012)</i>
4	0.005(-0.000 - 0.010)	0.003(-0.003 - 0.009)	0.003(-0.004 - 0.011)	0.006(-0.001 - 0.013)	0.002(-0.006 - 0.009)	0.003(-0.001 - 0.007)
5	0.005(-0.000 - 0.009)	0.001(-0.007 - 0.010)	0.005(-0.001 - 0.011)	<i>0.008(0.001 - 0.014)</i>	0.003(-0.002 - 0.009)	<i>0.005(0.000 - 0.009)</i>
6	0.002(-0.005 - 0.008)	0.002(-0.004 - 0.009)	0.001(-0.016 - 0.018)	0.003(-0.006 - 0.012)	0.002(-0.008 - 0.012)	0.003(-0.004 - 0.009)
7	0.002(-0.003 - 0.008)	0.001(-0.010 - 0.013)	0.005(-0.001 - 0.011)	<i>0.008(0.001 - 0.014)</i>	0.003(-0.003 - 0.008)	0.004(-0.000 - 0.009)
8	0.003(-0.001 - 0.007)	<i>0.006(0.001 - 0.011)</i>	0.003(-0.004 - 0.009)	0.006(-0.000 - 0.012)	0.003(-0.003 - 0.009)	0.003(-0.002 - 0.008)
9	0.002(-0.005 - 0.009)	0.002(-0.008 - 0.011)	<i>0.009(0.004 - 0.015)</i>	<i>0.014(0.007 - 0.020)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.007(0.003 - 0.012)</i>
10	0.001(-0.012 - 0.013)	0.002(-0.007 - 0.011)	<i>0.007(0.001 - 0.013)</i>	<i>0.009(0.003 - 0.016)</i>	0.003(-0.002 - 0.009)	0.004(-0.000 - 0.008)
11	0.003(-0.001 - 0.008)	0.005(-0.000 - 0.011)	0.005(-0.001 - 0.012)	0.002(-0.007 - 0.010)	0.002(-0.004 - 0.008)	0.004(-0.002 - 0.009)
12	<i>0.009(0.002 - 0.015)</i>	0.005(-0.001 - 0.011)	<i>0.012(0.007 - 0.018)</i>	<i>0.008(0.002 - 0.015)</i>	<i>0.007(0.001 - 0.012)</i>	<i>0.008(0.003 - 0.013)</i>
13	0.003(-0.006 - 0.011)	0.002(-0.011 - 0.014)	<i>0.012(0.006 - 0.018)</i>	<i>0.011(0.004 - 0.018)</i>	<i>0.006(0.000 - 0.012)</i>	<i>0.006(0.002 - 0.011)</i>

14	0.001(-0.006 - 0.009) Ethnicity: W. Brit.	0.003(-0.005 - 0.010) Ethnicity: Mixed	0.002(-0.005 - 0.009) Ethnicity: Indian	0.003(-0.006 - 0.011) Ethnicity: Pakistani	0.008(0.002 - 0.014) Ethnicity: Bangladeshi	0.005(-0.000 - 0.010) Ethnicity: Caribbean
2						
3	0.004(0.001 - 0.007)	0.002(-0.008 - 0.013)	0.001(-0.010 - 0.013)	0.004(-0.004 - 0.012)	0.001(-0.016 - 0.018)	0.004(0.004 - 0.005)
4	0.007(0.003 - 0.010)	0.001(-0.021 - 0.022)	0.002(-0.006 - 0.010)	0.002(-0.008 - 0.012)	0.015(0.006 - 0.023)	0.005(0.004 - 0.005)
5	0.003(0.001 - 0.005)	0.003(-0.001 - 0.008)	0.001(-0.016 - 0.017)	0.003(-0.003 - 0.009)	0.003(0.002 - 0.003)	0.001(-0.009 - 0.012)
6	0.005(0.002 - 0.008)	0.002(-0.006 - 0.010)	0.004(-0.003 - 0.010)	0.001(-0.031 - 0.033)	0.005(-0.002 - 0.012)	0.003(-0.001 - 0.008)
7	0.004(0.001 - 0.006)	0.001(-0.016 - 0.018)	0.005(-0.003 - 0.014)	0.005(-0.000 - 0.010)	0.002(0.002 - 0.003)	0.004(0.004 - 0.005)
8	0.003(0.000 - 0.006)	0.002(-0.006 - 0.010)	0.006(-0.002 - 0.014)	0.003(-0.007 - 0.012)	0.003(0.002 - 0.003)	0.000(-0.037 - 0.037)
9	0.004(0.002 - 0.006)	0.001(-0.008 - 0.011)	0.003(-0.002 - 0.009)	0.001(-0.014 - 0.016)	0.004(0.003 - 0.005)	0.005(0.004 - 0.005)
10	0.002(-0.001 - 0.006)	0.002(-0.008 - 0.013)	0.002(-0.007 - 0.010)	0.003(-0.006 - 0.012)	0.001(0.001 - 0.001)	0.003(-0.009 - 0.014)
11	0.004(0.001 - 0.008)	0.006(-0.002 - 0.014)	0.001(-0.008 - 0.011)	0.004(-0.001 - 0.008)	0.002(0.002 - 0.003)	0.004(-0.006 - 0.013)
12	0.007(0.005 - 0.010)	0.007(0.004 - 0.009)	0.002(-0.010 - 0.014)	0.001(-0.014 - 0.017)	0.003(0.003 - 0.003)	0.005(0.005 - 0.006)
13	0.006(0.002 - 0.010)	0.002(-0.012 - 0.015)	0.010(0.001 - 0.019)	0.004(-0.002 - 0.011)	0.005(-0.006 - 0.017)	0.004(-0.004 - 0.013)
14	0.005(0.001 - 0.009)	0.001(-0.017 - 0.019)	0.007(-0.002 - 0.016)	0.003(-0.003 - 0.010)	0.003(-0.008 - 0.014)	0.005(-0.005 - 0.015)
	Ethnicity: African	Ethnicity: Other	GHQ-12: 0-3	GHQ-12: 4-6	GHQ-12: 7-9	GHQ-12: 10-12
2						
3	0.003(-0.008 - 0.014)	0.006(-0.002 - 0.013)	0.017(0.013 - 0.021)	0.004(-0.000 - 0.008)	0.006(0.000 - 0.011)	0.003(-0.001 - 0.007)
4	0.005(-0.004 - 0.015)	0.006(-0.001 - 0.014)	0.008(0.004 - 0.011)	0.003(-0.004 - 0.010)	0.003(-0.004 - 0.010)	0.002(-0.006 - 0.010)
5	0.003(-0.003 - 0.008)	0.003(-0.004 - 0.011)	0.015(0.012 - 0.018)	0.007(0.002 - 0.012)	0.006(0.001 - 0.011)	0.004(0.000 - 0.007)
6	0.008(-0.001 - 0.017)	0.005(-0.002 - 0.012)	0.009(0.005 - 0.013)	0.002(-0.006 - 0.010)	0.003(-0.006 - 0.011)	0.006(-0.001 - 0.014)
7	0.003(-0.005 - 0.011)	0.005(-0.003 - 0.012)	0.005(0.002 - 0.008)	0.002(-0.005 - 0.010)	0.009(0.002 - 0.017)	0.004(-0.002 - 0.010)
8	0.001(-0.011 - 0.013)	0.003(-0.005 - 0.010)	0.007(0.003 - 0.010)	0.003(-0.004 - 0.010)	0.005(-0.002 - 0.012)	0.002(-0.006 - 0.009)
9	0.005(0.004 - 0.005)	0.006(-0.002 - 0.013)	0.005(0.001 - 0.009)	0.003(-0.005 - 0.011)	0.004(-0.004 - 0.012)	0.002(-0.008 - 0.011)
10	0.001(-0.020 - 0.022)	0.003(-0.004 - 0.009)	0.008(0.004 - 0.012)	0.003(-0.005 - 0.011)	0.002(-0.008 - 0.011)	0.005(-0.002 - 0.012)
11	0.001(-0.005 - 0.008)	0.005(-0.002 - 0.012)	0.009(0.005 - 0.013)	0.008(0.001 - 0.015)	0.004(-0.003 - 0.012)	0.004(-0.003 - 0.011)
12	0.007(-0.004 - 0.018)	0.012(0.004 - 0.021)	0.016(0.011 - 0.020)	0.005(0.001 - 0.009)	0.005(-0.002 - 0.012)	0.007(0.001 - 0.013)
13	0.003(0.003 - 0.004)	0.001(-0.019 - 0.020)	0.004(0.000 - 0.008)	0.003(-0.007 - 0.012)	0.003(-0.005 - 0.012)	0.002(-0.012 - 0.015)
14	0.006(-0.005 - 0.016)	0.002(-0.005 - 0.009)	0.009(0.005 - 0.013)	0.003(-0.004 - 0.010)	0.003(-0.004 - 0.011)	0.006(-0.001 - 0.013)
	GHQ-12: Not recorded	Tenure: Owner occ.	Tenure: Mortgage	Tenure: Rented / Other	HH Str: 1adult	HH Str: 1adult, kids
2						
3	0.041(0.033 - 0.048)	0.009(0.004 - 0.014)	0.006(0.003 - 0.010)	0.014(0.008 - 0.020)	0.010(0.005 - 0.015)	0.004(-0.003 - 0.010)
4	0.019(0.012 - 0.026)	0.007(0.003 - 0.012)	0.004(0.001 - 0.007)	0.011(0.005 - 0.017)	0.009(0.004 - 0.014)	0.005(-0.001 - 0.011)
5	0.038(0.031 - 0.046)	0.006(0.001 - 0.011)	0.002(-0.001 - 0.006)	0.005(-0.000 - 0.011)	0.005(0.001 - 0.010)	0.006(0.000 - 0.011)
6	0.016(0.009 - 0.024)	0.002(-0.006 - 0.010)	0.002(-0.004 - 0.008)	0.004(-0.003 - 0.011)	0.007(0.001 - 0.012)	0.002(-0.005 - 0.010)
7	0.010(0.002 - 0.017)	0.004(-0.001 - 0.009)	0.006(0.001 - 0.010)	0.010(0.004 - 0.016)	0.006(0.001 - 0.011)	0.007(0.000 - 0.014)
8	0.014(0.006 - 0.021)	0.006(0.001 - 0.011)	0.004(-0.001 - 0.008)	0.002(-0.003 - 0.008)	0.003(-0.001 - 0.007)	0.005(-0.002 - 0.012)
9	0.008(0.001 - 0.016)	0.004(-0.001 - 0.010)	0.004(-0.000 - 0.009)	0.004(0.002 - 0.014)	0.002(-0.002 - 0.007)	0.004(-0.003 - 0.011)
10	0.017(0.008 - 0.025)	0.008(0.002 - 0.013)	0.003(-0.000 - 0.007)	0.007(0.001 - 0.013)	0.006(0.002 - 0.010)	0.005(-0.002 - 0.013)
11	0.012(0.004 - 0.020)	0.009(0.004 - 0.013)	0.007(0.003 - 0.011)	0.017(0.011 - 0.024)	0.004(0.000 - 0.008)	0.002(-0.007 - 0.010)
12	0.037(0.027 - 0.047)	0.011(0.006 - 0.016)	0.005(0.002 - 0.008)	0.017(0.010 - 0.024)	0.007(0.001 - 0.013)	0.003(-0.006 - 0.012)
13	0.013(0.004 - 0.023)	0.008(0.002 - 0.013)	0.007(0.002 - 0.012)	0.017(0.009 - 0.024)	0.007(0.004 - 0.011)	0.013(0.005 - 0.022)
14	0.019(0.009 - 0.028)	0.005(0.000 - 0.010)	0.006(0.001 - 0.010)	0.013(0.006 - 0.019)	0.005(-0.000 - 0.010)	0.005(-0.003 - 0.012)

	HH Str: Couple	HH Str: Couple, kids	HH Str: Other
2			
3	<i>0.004(0.001 - 0.007)</i>	<i>0.003(-0.001 - 0.008)</i>	<i>0.011(0.005 - 0.016)</i>
4	<i>0.004(0.000 - 0.009)</i>	<i>0.005(0.000 - 0.010)</i>	<i>0.010(0.004 - 0.015)</i>
5	<i>0.006(0.002 - 0.010)</i>	<i>0.008(0.003 - 0.012)</i>	<i>0.015(0.010 - 0.021)</i>
6	<i>0.009(0.004 - 0.014)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.015(0.009 - 0.020)</i>
7	<i>0.004(-0.000 - 0.008)</i>	<i>0.009(0.004 - 0.014)</i>	<i>0.010(0.005 - 0.015)</i>
8	<i>0.009(0.004 - 0.013)</i>	<i>0.004(0.000 - 0.008)</i>	<i>0.008(0.004 - 0.013)</i>
9	<i>0.009(0.004 - 0.014)</i>	<i>0.003(-0.002 - 0.007)</i>	<i>0.008(0.003 - 0.013)</i>
10	<i>0.012(0.007 - 0.017)</i>	<i>0.005(0.001 - 0.008)</i>	<i>0.013(0.007 - 0.018)</i>
11	<i>0.010(0.005 - 0.014)</i>	<i>0.005(0.001 - 0.009)</i>	<i>0.012(0.007 - 0.018)</i>
12	<i>0.006(0.001 - 0.011)</i>	<i>0.003(-0.002 - 0.008)</i>	<i>0.011(0.005 - 0.017)</i>
13	<i>0.016(0.010 - 0.021)</i>	<i>0.007(0.003 - 0.011)</i>	<i>0.016(0.010 - 0.022)</i>
14	<i>0.011(0.005 - 0.016)</i>	<i>0.006(0.001 - 0.011)</i>	<i>0.011(0.005 - 0.016)</i>