Social care in childhood and adult outcomes: double whammy for minority children?

# Appendices

# Appendix 1. Derivation of harmonised ethnic groups for analysis

Identical questions on ethnicity were asked for the first time in 1991 in both the Household form (completed by the head of household) and the Individual form (completed by the LS member if 16 years or older or by the head of household otherwise). Responses on the Individual form took priority over the Household form. Ethnic identity was not asked for LS children in residential care. For these children and for all children observed before 1991, ethnicity was derived from their responses on the Individual form when they completed the census as adults.

In 1991, there were 7 boxes to tick, with an ‘any other’ option where people could write in their ethnicity using their own words. People were instructed to either tick the group to which they felt they belonged or use the ‘any other’ option if they belonged to mixed or multiple ethnic groups. In 2001, people were asked to choose one of 5 options (White; Mixed; Asian or Asian British; Black or Black British; and Chinese or other ethnic group), and then select from 2-3 boxes within the section or use the option to write in their ethnicity. In 2011, the question changed again with new labels for the 5 options (White; Mixed/multiple; Asian/Asian British; Black, African/Caribbean/Black British; Other ethnic group) and an expanded selection of 13 boxes in total to tick and again, an option to write in their ethnicity within each section. The exact census wording for the 1991-2011 censuses is shown below.

| Ethnicity questions in the 1991-2011 censuses |
| --- |
| **1991 census** | **2001 census** | **2011 census** |
| **Ethnic group** | **What is your ethnic group** | **What is your ethnic group** |
| *Please tick the appropriate box.**If you are descended from more than ethnic or racial group, please tick the group to which you consider you belong, or tick the ‘Any other ethnic group’ box and describe your ancestry in the space provided.* | *Choose one box from A to E then ✓ the appropriate box to indicate your cultural background.* | *Choose one section from A to E then tick one box to best describe your ethnic group or background.* |
| 0 White | A White | A White |
| 1 Black-Caribbean | British | English/Welsh/Scottish/Northern Irish/ British |
| 2 Black-African | Irish | Irish |
|  Black-Other (please describe) | Any other White background (write in) | Any other White background (write in) |
| 3 Indian |  |  |
| 4 Pakistani | B Mixed | B Mixed/multiple ethnic groups |
| 5 Bangladeshi | White and Black Caribbean | White and Black Caribbean |
| 6 Chinese | White and Black African | White and Black African |
|  Any other ethnic group (please describe | White and Asian | White and Asian |
|  | Any other Mixed background (write in) | Any other Mixed background (write in) |
|  |  |  |
|  | C Asian or Asian British | C Asian/Asian British |
|  | Indian | Indian |
|  | Pakistani | Pakistani |
|  | Bangladeshi | Bangladeshi |
|  | Any other Asian background (write in) | Chinese |
|  |  | Any other Asian background (write in) |
|  |  |  |
|  | D Black or Black British | D Black/African/Caribbean/Black British |
|  | Caribbean | African |
|  | African | Caribbean |
|  | Any other Black background (write in) | Any other Black/African/Caribbean background (write in) |
|  |  |  |
|  | E Chinese or other ethnic group | E Other ethnic group |
|  | Chinese | Arab |
|  | Any other (write in) | Gypsy or Irish Traveller |
|  |  | Any other ethnic group (write in) |
|  |  |  |

# Answers to the 1991 question were assigned to one of 35 codes. The full classification incorporates each of the 7 pre-coded categories from the question, plus another 28 derived from any multi-ticking of boxes and the written descriptions given in the 'Black-Other' and 'Other ethnic group' boxes, giving a total of 35 identities. There were 695 identities combined into 16 groups in 2001 and 760 identities combined into 18 groups in 2011. The identities from each census were reduced to 4 groups: 0 White; 1 Black 2 South Asian; and 4 Other as follows:

| Derivation of a harmonised ethnic grouping from the LS census identities |
| --- |
| **Harmonized groups** | **1991 census identities**  | **2001 census identities** | **2011 census identities** |
| 0 White | 0 White | 1 British | 1 English/Welsh/Scottish/Northern Irish/British |
|  | 89 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Irish | 2 Irish | 2 Irish |
|  | 90 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Greek (inc Greek Cypriot) | 3 Other White | 3 Gypsy or Irish Traveller |
|  | 91 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Turkish (inc Turkish Cypriot) |  | 4 Other White |
|  | 92 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Other European |  |  |
|  | 96 OTHER ETHNIC GROUP: MIXED ORIGIN - Mixed White |  |  |
| 1 Black | 1 Black-Caribbean | 12 Black Caribbean | 15 Caribbean |
|  | 2 Black-African | 13 Black African | 14 African |
|  | 70 BLACK-OTHER: NON-MIXED ORIGIN - British | 14 Other Black | 16 Other Black |
|  | 71 BLACK-OTHER: NON-MIXED ORIGIN - Caribbean Island, West Indian or Guyana | 4 White and Black Caribbean | 5 White and Black Caribbean |
|  | 72 BLACK-OTHER: NON-MIXED ORIGIN - North African, Arab or Iranian | 5 White and Black African | 6 White and Black African |
|  | 73 BLACK-OTHER: NON-MIXED ORIGIN - Other African Countries |  |  |
|  | 74 BLACK-OTHER: NON-MIXED ORIGIN - East African Asian or Indo-Caribbean |  |  |
|  | 75 BLACK-OTHER: NON-MIXED ORIGIN - Indian sub-continent |  |  |
|  | 76 BLACK-OTHER: NON-MIXED ORIGIN - Other Asian |  |  |
|  | 77 BLACK-OTHER: NON-MIXED ORIGIN - Other answers |  |  |
|  | 78 BLACK OTHER: MIXED ORIGIN - Black/White |  |  |
|  | 79 BLACK OTHER: MIXED ORIGIN - Asian/White |  |  |
|  | 80 BLACK OTHER: MIXED ORIGIN - Other mixed |  |  |
|  | 83 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Caribbean Island, West Indies or Guyana |  |  |
|  | 84 OTHER ETHNIC GROUP: NON MIXED ORIGIN - North African, Arab or Iranian |  |  |
|  | 85 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Other African Countries |  |  |
|  | 94 OTHER ETHNIC GROUP: MIXED ORIGIN - Black/White |  |  |
| 2 South Asian | 3 Indian | 8 Indian | 9 Indian |
|  | 4 Pakistani | 9 Pakistani | 10 Pakistani |
|  | 5 Bangladeshi | 10 Bangladeshi | 11 Bangladeshi |
|  | 86 OTHER ETHNIC GROUP: NON MIXED ORIGIN - East African Asian or Indo-Caribbean | 6 White and Asian | 7 White and Asian |
|  | 87 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Indian sub-continent | 11 Other Asian | 13 Other Asian |
|  | 88 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Other Asian |  |  |
|  | 95 OTHER ETHNIC GROUP: MIXED ORIGIN - Asian/White |  |  |
| 3 Other | 6 Chinese | 15 Chinese | 12 Chinese |
|  | 81 OTHER ETHNIC GROUP: NON MIXED ORIGIN - British - ethnic minority indicated | 7 Other Mixed | 17 Arab |
|  | 82 OTHER ETHNIC GROUP: NON MIXED ORIGIN - British - no ethnic minority indicated | 16 Other Ethnic Group | 18 Other Ethnic Group |
|  | 93 OTHER ETHNIC GROUP: NON MIXED ORIGIN - Other answers |  |  |
|  | 97 OTHER ETHNIC GROUP: MIXED ORIGIN - Other mixed |  |  |

Note: This derivation is consistent with information given to patients by the NHS for recording ethnic group

# Appendix A2. Additional tables

Table A2.1. Childhood characteristics of the analysis sample compared with all available data, complete and incomplete childhood data, and missing follow-up data: ONS Longitudinal Study

Table A2.2. Description of adult outcomes by ethnicity and care type: ONS Longitudinal Study.

Table A2.3. Estimates1 (95% confidence intervals) for social outcomes regressed on ethnicity by care interaction: ONS Longitudinal Study

Table A2.4. Marginal effects by ethnic group: ONS Longitudinal Study

# Table A2.1. Childhood characteristics of the analysis sample compared with all available data, complete and incomplete childhood data, and missing follow-up data: ONS Longitudinal Study

|  | **Obs** | **%** | **Obs** | **%** | **Obs** | **%** | **Obs** | **%** | **Obs** | **%** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethnicity |  |  |  |  |  |  |  |  |  |  |
| White | 778,174 | 94.32 | 720,968 | 94.89 | 57,206 | 87.68 | 93,350 | 90.2 | 638,473 | 95.37 |
| Black | 18,581 | 2.25 | 14,865 | 1.96 | 3,716 | 5.7 | 4,894 | 4.73 | 11,204 | 1.67 |
| South Asian | 28,278 | 3.43 | 23,953 | 3.15 | 4,325 | 6.63 | 5,243 | 5.07 | 19,797 | 2.96 |
| UK-born |  |  |  |  |  |  |  |  |  |  |
| Yes | 801,188 | 97.12 | 739,319 | 97.31 | 61,869 | 94.95 | 98,185 | 94.91 | 653,257 | 97.58 |
| No | 23,759 | 2.88 | 20,467 | 2.69 | 3,292 | 5.05 | 5,262 | 5.09 | 16,217 | 2.42 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 414,810 | 50.28 | 382,478 | 50.34 | 32,332 | 49.55 | 63,171 | 61.04 | 327,422 | 48.91 |
| Female | 410,223 | 49.72 | 377,308 | 49.66 | 32,915 | 50.45 | 40,316 | 38.96 | 342,052 | 51.09 |
| HoH social class |  |  |  |  |  |  |  |  |  |  |
| Managerial/prof | 222,851 | 29.33 | 222,846 | 29.33 | 5 | 4.81 | 26,070 | 28.85 | 196,776 | 29.39 |
| Intermediate | 257,334 | 33.86 | 257,323 | 33.87 | 11 | 10.58 | 29,678 | 32.85 | 227,646 | 34 |
| Routine | 279,705 | 36.81 | 279,617 | 36.8 | 88 | 84.62 | 34,601 | 38.3 | 245,052 | 36.6 |
| N/A |  |  |  |  |  |  |  |  |  |  |
| HoH qualifications |  |  |  |  |  |  |  |  |  |  |
| ≥ 18-year qual | 86.08 | 86.08 | 112,524 | 14.81 | 2,314 | 3.56 | 14,351 | 13.87 | 98,711 | 14.74 |
| < 18-year qual | 86.08 | 86.08 | 647,262 | 85.19 | 62,733 | 96.44 | 89,091 | 86.13 | 570,763 | 85.26 |
|  N/A |  |  |  |  |  |  |  |  |  |  |
| HoH employment |  |  |  |  |  |  |  |  |  |  |
| In work | 705,431 | 85.52 | 696,549 | 91.68 | 8,882 | 13.65 | 78,909 | 76.28 | 618,784 | 92.43 |
| Unemployed | 47,416 | 5.75 | 37,780 | 4.97 | 9,636 | 14.81 | 9,300 | 8.99 | 30,837 | 4.61 |
| OLF | 71,990 | 8.73 | 25,457 | 3.35 | 46,533 | 71.53 | 15,232 | 14.73 | 19,853 | 2.97 |
| N/A |  |  |  |  |  |  |  |  |  |  |
| HoH marital status |  |  |  |  |  |  |  |  |  |  |
| Married | 737,208 | 89.37 | 701,264 | 92.3 | 35,944 | 55.18 | 85,904 | 83.03 | 622,254 | 92.95 |
| Divorced/widowed | 64,463 | 7.81 | 41,921 | 5.52 | 22,542 | 34.6 | 11,320 | 10.94 | 34,698 | 5.18 |
| Single | 23,256 | 2.82 | 16,601 | 2.18 | 6,655 | 10.22 | 6,237 | 6.03 | 12,522 | 1.87 |
| N/A |  |  |  |  |  |  |  |  |  |  |
|  | **Mean** | **95% CI** | **Mean** | **95% CI** | **Mean** | **95% CI** | **Mean** | **95% CI** | **Mean** | **95% CI** |
| Childhood age | 9.66 | 9.65, 9.67 | 9.65 | 9.64, 9.67 | 9.78 | 9.74, 9.81 | 9.36 | 9.33, 9.39 | 9.69 | 9.68, 9.70 |

1 All available data; 2 Complete within childhood census data; 3 Item non-response within childhood census data; 4Missing follow-up censuses by design, non-response or linkage problems; 5 Analysis sample

# Table A2.2. Description of adult outcomes by ethnicity and care type: ONS Longitudinal Study.

|  | Parental care | Residential care |
| --- | --- | --- |
|  | White | Black | South Asian | White | Black | South Asian |
| Self-rated health (%) |  |  |  |  |  |  |
| Good | 0.84 | 0.81 | 0.85 | 0.68 | 0.75 | 0.67 |
| Poor | 0.16 | 0.19 | 0.15 | 0.32 | 0.25 | 0.33 |
| Limiting long-term illness (%) |  |  |  |  |  |
| No | 0.93 | 0.91 | 0.93 | 0.80 | 0.84 | 0.86 |
| Yes | 0.07 | 0.09 | 0.07 | 0.20 | 0.16 | 0.14 |
| Highest qualification (%) |  |  |  |  |  |
| ≥18 years quals | 0.32 | 0.35 | 0.48 | 0.17 | 0.31 | 0.21 |
| <18 years quals | 0.68 | 0.65 | 0.52 | 0.83 | 0.69 | 0.79 |
| Long term non-employed (%) |  |  |  |  |  |
| No | 0.97 | 0.96 | 0.96 | 0.91 | 0.93 | >0.92 |
| Yes | 0.03 | 0.04 | 0.04 | 0.09 | 0.07 | <0.08 |
| Current employment status (%) |  |  |  |  |  |
| In work | 0.77 | 0.66 | 0.63 | 0.55 | 0.65 | >0.56 |
| Unemployed | 0.06 | 0.13 | 0.09 | 0.12 | 0.08 | >0.16 |
| Education | 0.04 | 0.05 | 0.07 | 0.07 | 0.08 | <0.08 |
| Other | 0.13 | 0.16 | 0.20 | 0.25 | 0.18 | >0.21 |
| Social class (%) |  |  |  |  |  |  |
| Managerial/prof | 0.32 | 0.27 | 0.34 | 0.17 | 0.27 | 0.18 |
| Intermediate | 0.29 | 0.27 | 0.23 | 0.22 | 0.21 | 0.31 |
| Routine | 0.30 | 0.27 | 0.20 | 0.41 | 0.34 | 0.29 |
| N/K | 0.10 | 0.19 | 0.22 | 0.20 | 0.18 | 0.22 |
| Housing tenure (%) |  |  |  |  |  |  |
| Owner-occupier | 0.69 | 0.53 | 0.79 | 0.45 | 0.39 | >0.62 |
| Renting | 0.28 | 0.44 | 0.18 | 0.49 | 0.54 | >0.30 |
| Other | 0.03 | 0.03 | 0.03 | 0.06 | 0.06 | <0.08 |
| Overcrowding (%) |  |  |  |  |  |  |
| No | 0.98 | 0.94 | 0.88 | 0.96 | 0.95 | 0.78 |
| Yes | 0.02 | 0.06 | 0.12 | 0.04 | 0.05 | 0.22 |
| Living alone (%) |  |  |  |  |  |  |
| No | 0.98 | 0.96 | 0.98 | 0.94 | 0.92 | >0.92 |
| Yes | 0.02 | 0.04 | 0.02 | 0.06 | 0.08 | <0.08 |
| Marital status (%) |  |  |  |  |  |  |
| Married | 0.42 | 0.21 | 0.45 | 0.38 | 0.27 | >0.62 |
| Divorced/widowed | 0.06 | 0.04 | 0.03 | 0.10 | 0.06 | >0.07 |
| Single | 0.52 | 0.75 | 0.52 | 0.52 | 0.67 | <0.31 |
| Teenage mother |  |  |  |  |  |  |
| No | 0.94 | 0.92 | 0.98 | 0.91 | >0.96 | 0.95 |
| Yes | 0.06 | 0.08 | 0.02 | 0.09 | <0.04 | 0.05 |
| Number of children (women only) |  |  |  |  |  |
| None | 0.52 | 0.61 | 0.65 | 0.71 | 0.88 | >0.80 |
| 1-2 children | 0.38 | 0.31 | 0.25 | 0.20 | 0.08 | >0.12 |
| 3+ children | 0.10 | 0.09 | 0.10 | 0.09 | 0.04 | <0.08 |
| Observations (n) | 635469 | 10926 | 19671 | 3004 | 278 | 126 |

1 Cell counts < 10 have been suppressed. Percentages are based on a count of 10 when cells are supressed

# Table A2.3. Estimates1 (95% confidence intervals) for social outcomes regressed on ethnicity by care interaction: ONS Longitudinal Study

|  | Ethnicity | Care group | Ethnicity by Care group  | P 2 |
| --- | --- | --- | --- | --- |
|  | Black | South Asian | Social care | Black bySocial care | S. Asian by Social care |  |
| Self-rated health | 1.67(1.57, 1.77) | 0.39(0.37, 0.41) | 1.87(1.67, 2.10) | 0.73(0.48, 1.10) | 1.01(0.63, 1.62) | 0.017 |
| Limiting long term illness | 1.11(1.00, 1.22) | 0.94(0.86, 1.02) | 2.37(2.08, 2.71) | 0.61(0.38, 0.97) | 0.68(0.37, 1.24) | 0.058 |
| < 18-year qualifications | 0.82(0.77, 0.87) | 0.52(0.50, 0.55) | 2.18(1.91, 2.49) | 0.50(0.33, 0.75) | 1.39(0.79, 2.43) | 0.0014 |
| Employment status |  |  |  |  |  | <0.00005 |
| Employed | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) |  |
| Unemployed | 2.04(1.88, 2.22) | 1.50(1.40, 1.61) | 2.31(2.00, 2.65) | 0.25(0.15, 0.43) | 0.87(0.45, 1.65) |  |
| In education | 1.60(1.43, 1.79) | 2.19(2.03, 2.36) | 2.36(1.97, 2.82) | 0.57(0.33, 0.97) | 0.39(0.18, 0.83) |  |
| Other | 1.27(1.18, 1.37) | 1.68(1.59, 1.77) | 2.08(1.85, 2.34) | 0.46(0.29, 0.72) | 0.62(0.36, 1.08) |  |
| Long term non-employed | 1.12(0.98, 1.27) | 1.68(1.51, 1.87) | 1.95(1.62, 2.34) | 0.56(0.32, 0.98) | 0.51(0.19, 1.38) | 0.058 |
| Social class3 |  |  |  |  |  | <0.00005 |
| Managerial/professional | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) |  |
| Intermediate/technical | 1.00(0.93, 1.08) | 0.73(0.69, 0.77) | 1.53(1.32, 1.77) | 0.55(0.36, 0.84) | 1.62(0.95, 2.76) |  |
| Routine occupations | 0.79(0.73, 0.86) | 0.47(0.45, 0.50) | 2.40(2.08, 2.76) | 0.57(0.36, 0.88) | 1.09(0.57, 2.06) |  |
| Not known | 1.80(1.65, 1.96) | 1.55(1.46, 1.64) | 3.38(2.84, 4.02) | 0.27(0.16, 0.44) | 0.61(0.29, 1.25) |  |
| Housing tenure |  |  |  |  |  | 0.17 |
| Owner occupier | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) |  |
| Renting | 1.67(1.57, 1.77) | 0.39(0.37, 0.41) | 1.87(1.67, 2.10) | 0.73(0.48, 1.10) | 1.01(0.63, 1.62) |  |
| Other | 1.24(1.06, 1.43) | 0.04(0.85, 0.00) | 2.78(2.30, 3.36) | 1.00(0.51, 1.93) | 0.19(1.04, 0.00) |  |
| Overcrowding | 2.16(1.94, 2.42) | 4.96(4.64, 5.30) | 1.64(1.32, 2.04) | 0.47(0.25, 0.88) | 0.97(0.56, 1.68) | 0.060 |
| Lives alone | 1.69(1.49, 1.92) | 1.11(0.98, 1.27) | 2.27(1.87, 2.76) | 0.80(0.47, 1.38) | 0.16(0.02, 1.15) | 0.14 |
| Marital status |  |  |  |  |  | 0.054 |
| Currently married | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) |  |
| Previously married | 0.96(0.84, 1.10) | 0.57(0.50, 0.64) | 1.58(1.33, 1.87) | 0.76(0.38, 1.49) | 0.99(0.47, 2.07) |  |
| Single | 0.96(0.84, 1.10) | 0.57(0.50, 0.64) | 1.58(1.33, 1.87) | 0.76(0.38, 1.49) | 0.99(0.47, 2.07) |  |
| Teenage mother3 | 1.11(0.95, 1.31) | 0.34(0.27, 0.42) | 1.32(1.03, 1.70) | 0.27(0.08, 0.89) | 1.72(0.41, 7.28) | 0.071 |
| Number of children3 |  |  |  |  |  | 0.13 |
| None | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) | 1.00(Ref) |  |
| 1-2 children | 0.63(0.57, 0.69) | 0.64(0.60, 0.68) | 0.25(0.20, 0.30) | 0.38(0.17, 0.85) | 1.31(0.47, 3.63) |  |
| 3+ children | 0.59(0.51, 0.69) | 0.97(0.87, 1.08) | 0.38(0.28, 0.50) | 0.38(0.12, 1.25) | 0.89(0.20, 4.01) |  |

1 Odds ratios for binary outcomes; relative risk ratio for nominal outcomes; reference White ethnicity in parental care

2 Women only

3 95% confidence intervals could not be estimated

Models adjust for country of birth, childhood census year, childhood and adult age in years, gender, and head of household social class, qualifications, employment status and marital status, averaged over adult census years.

#

# Table A2.4. Marginal effects by ethnic group: ONS Longitudinal Study

|  | White | Black | South Asian |
| --- | --- | --- | --- |
| Poor self-rated health | 0.11 (0.09, 0.13) | 0.01 (-0.06, 0.07) | 0.12 (0.02, 0.22) |
| Limiting long term illness | 0.08 (0.06, 0.09) | 0.03 (-0.01, 0.07) | 0.04 (-0.02, 0.09) |
| < 18-year qualifications | 0.13 (0.11, 0.15) | 0.02 (-0.06, 0.10) | 0.23 (0.14, 0.32) |
| Employment status |  |  |  |
| Employed | -0.15 (-0.17, -0.13) | 0.02 (-0.04, 0.09) | -0.07 (-0.17, 0.03) |
| Unemployed | 0.05 (0.03, 0.06) | -0.04 (-0.07, -0.01) | 0.06 (-0.01, 0.12) |
| In education | 0.03 (0.02, 0.04) | 0.02 (-0.01, 0.05) | -0.01 (-0.05, 0.02) |
| Other | 0.08 (0.06, 0.09) | 0.00 (-0.05, 0.04) | 0.03 (-0.05, 0.10) |
| Long term non-employed | 0.02 (0.01, 0.02) | 0.00 (-0.01, 0.01) | 0.00 (-0.03, 0.03) |
| Social class3 |  |  |  |
| Managerial/professional | -0.14 (-0.15, -0.12) | -0.01 (-0.08, 0.07) | -0.18 (-0.26, -0.10) |
| Intermediate/technical | -0.04 (-0.06, -0.02) | -0.06 (-0.12, 0.01) | 0.09 (0.00, 0.18) |
| Routine occupations | 0.11 (0.09, 0.13) | 0.08 (0.00, 0.15) | 0.07 (-0.02, 0.16) |
| Not known | 0.07 (0.05, 0.08) | -0.02 (-0.06, 0.03) | 0.01 (-0.07, 0.10) |
| Housing tenure |  |  |  |
| Owner occupier | -0.15 (-0.18, -0.13) | -0.09 (-0.19, 0.01) | -0.09 (-0.17, -0.01) |
| Renting | 0.13 (0.10, 0.15) | 0.06 (-0.04, 0.15) | 0.09 (0.01, 0.17) |
| Other | 0.03 (0.02, 0.04) | 0.03 (0.00, 0.06) | 0.00 (-0.02, 0.02) |
| Overcrowding | 0.01 (0.01, 0.02) | -0.01 (-0.03, 0.01) | 0.05 (-0.01, 0.11) |
| Lives alone | 0.02 (0.01, 0.02) | 0.02 (0.00, 0.04) | -0.01 (-0.02, 0.00) |
| Marital status |  |  |  |
| Currently married | -0.02 (-0.05, 0.00) | 0.05 (-0.03, 0.13) | 0.12 (0.02, 0.21) |
| Previously married | 0.02 (0.01, 0.03) | 0.01 (-0.01, 0.03) | 0.03 (-0.01, 0.07) |
| Single | 0.00 (-0.03, 0.04) | -0.06 (-0.15, 0.03) | -0.15 (-0.24, -0.05) |
| Teenage mother3 | 0.01 (0.00, 0.03) | -0.03 (-0.06, -0.01) | 0.02 (-0.03, 0.07) |
| Number of children3 |  |  |  |
| None | 0.28 (0.25, 0.31) | 0.31 (0.26, 0.35) | 0.22 (0.07, 0.36) |
| 1-2 children | -0.25 (-0.27, -0.22) | -0.26 (-0.30, -0.23) | -0.17 (-0.28, -0.06) |
| 3+ children | -0.03 (-0.04, -0.02) | -0.04 (-0.06, -0.03) | -0.05 (-0.10, 0.00) |

Marginal effects by ethnicity are the difference in the logistic and multinomial regression estimates for parental and social care by ethnicity at mean values of country of birth, childhood census year, childhood and adult age in years, gender, and head of household social class, qualifications, employment status and marital status, averaged over adult census years.