Supplementary Table 1: Description of precursors to social resources at mid-life

|  |  |  |  |
| --- | --- | --- | --- |
| **Measure** | **Respondent** | **Description of measure** | **Age (years)** |
| **Child** **factors** |  |  |  |
|  Gender | Parent | 0=Male (51.4%), 1=Female (48.6%) | Birth |
|  |  |  |  |
|  Reading  | Cohort member | Assessed using the Southgate Reading Test, including a 30-item test of word recognition and comprehension. M (sd) = 23.43 (7.07) | 7 |
|  Cognitive ability | Cohort member | Assessed using the General Ability Test, including 80 items assessing verbal and non-verbal skills. M (sd) = 43.27 (15.9) | 11 |
|  Internalising problems | Parent  | Assessed using 3 items from the Rutter A2 scales. M (sd) = 1.38 (1.31) | 7 |
|  Externalising problems | Parent | Assessed using 6 items from the Rutter A2 scales. M (sd) = 2.98 (2.21) | 7 |
|  Personality | Teacher | Personality traits or behaviours assessed using a Likert-type scale from 1 to 5 for the following: a) Cautious/Impulsive M (sd) = 2.78 (0.92)b) Even-tempered / Moody M (sd) = 2.50 (1.22) c) Timid/ Aggressive M (sd) = 2.95 (0.78)d) Flexible/Rigid M (sd) = 2.80 (0.80)e) Sociable/ Withdrawn M (sd) = 2.40 (1.04)f) Hard-working / Lazy M (sd) = 2.76 (1.23) | 16 |
|  Has a disability | Parent | Child is handicapped or disabled (7.6%). 0=No, 1=Yes. | 16 |
| **Social resources in childhood** |  |  |  |
|  Child sees friends  outside school | Parent | Child sees other children outside the household, excluding going to and from, and in school (66.8%). 0=not at all, very little or quite often, 1=most days or every day. | 11 |
|  Child does not get on  well with both parents | Cohort member | Child does not get on well with both parents (12.0%), derived from responses to: ‘I get on well with my mother’ and ‘I get on well with my father’. 0=very true or true for at least one parent, 1=untrue or very untrue for both parents. | 16 |
|  Arguments with  parents | Parent | Parent and child sometimes or often (as opposed to hardly) argue about at least 4 of the following topics (10.9%): choice of friends of the same sex and opposite sex, dress or hair style, late nights and bedtime, places visited in own time, whether homework is done, child smoking and child drinking. 0=0-3 topics, 1=4 or more topics. | 16 |
|  Goes to discos or  parties | Cohort member | Child often goes to discos or parties (46.2%), derived from responses to how often he/she: a) dances at dance halls, discos etc., and, b) goes to parties in friends’ homes. 0= no opportunity to go, hardly ever or sometimes goes to discos and parties, 1=often goes to either discos or parties. | 16 |
|  |  |  |  |
| **Family environment**  |  |  |  |
|   Child not living with  both parents | Parent  | Derived variable identifying children who live with neither or one parent at ages 7, 11 and 16 (14.6%). 0=both parents, 1=neither or one parent. | 7, 11 & 16 |
|  Child is/has been in  care | Parent  | Child is or has been in the care of a Local Authority (3.2%). 0=never in care, 1=in the past only or now in care. | 16 |
|  Higher parental social  class | Parent | Father’s occupation is non-manual (19.8%), identified using the Registrar General’s Social Classes index. 0=Unskilled, partly-skilled, skilled non-manual and manual occupations,1= managerial, technical and professional occupations. | 7 & 11 |
|  Family difficulties | Parent | At least 2 difficulties faced by the family (10.1%), including: housing, financial, physical illness or disability, mental illness or neurosis, mental sub-normality, death of child’s father, death of child’s mother, divorce, separation or desertion, domestic tension, ‘in-law’ conflicts, unemployment, alcoholism or any other serious difficulties affecting the child’s development. 0=0-1 difficulties, 1=2 or more difficulties. | 7 |
| **Psychopathology in adulthood** |  |  |  |
| Psychological distress | Cohort member | Assessed using the 9-item Malaise InventoryM (sd) = 0.99 (1.54). | 33 |
| **Socioeconomic factors** |  |  |  |
|  Higher education level | Cohort member | Stayed in education beyond A-level (26.0%). 0=A-levels or below, including those with no qualifications, 1=Higher qualifications, including those with a degree. | 33 |
|  Higher social class | Cohort member | Identified using the Registrar General’s Social Classes index, classifying occupations as 1=professional (4.8%), 2=Managerial/ technical (36.7%), 3=skilled non-manual (21.5%), 4=skilled manual (20.9%), partly skilled (12.6%) and unskilled (3.5%). | 42 |
|  Property ownership | Cohort member | Owns a property (78.9%). 0=Rent-free, renting or other, 1=Owns outright or with a mortgage. | 33 |
|  Ever unemployed | Cohort member | Unemployed and seeking work for any period of a month or more between the ages of 23 and 33 (22.8%). 0=No, 1=Yes. | 33 |
|  |  |  |  |
| **Social resources in adulthood**   |  |  |  |
|  Often volunteers | Cohort member | Volunteered in the past 12 months (23.7%). 0=No, 1=Yes. | 23  |
|  Social support | Cohort member | Has four possible people (family, friends or others) to turn to for help and advice regarding: a) domestic (e.g. help with shopping) (38.4%) b) financial (e.g. borrow money) (21.0%)c) household (28.3%)d) personal (e.g. advice about an important life change (50.8%)e) confiding (e.g. upset with spouse or partner) (29.0%) f) emotional (e.g. feeling down or depressed) (33.9%) | 33 |
|  Social difficulties | Cohort member | Assessed by selecting more negative statements regarding social relationships with others: a) ‘I often find myself drawn into arguments with other people’ (15.5%)b) ‘I find that I cannot be too careful in dealing with other people’ (33.0%)c) Does not get on well with other people (not very well or not at all well) (50.0%) | 33 |
|  Often attends religious  meetings | Cohort member | Attends religious services or meetings often (28.5%). 0=never or less often, 1=once a month or at least once a month. | 33 |
|  |  |  |  |
|  Not married | Cohort member | Not married (29.2%). 0=Married – 1st marriage or re-married, 1=Single - never married, separated, divorced or widowed. | 33 |

Supplementary Table 2: Group comparisons across levels of social resources for participants exposed to 1 or 2, or 3 or more stressful life eventsa

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Number of stressful life events age 45 | Mid-life outcomes |  |  Social resources at age 45Poor Typical Rich |  Group comparisons |  Group comparisons (adjusted for prior mental health) |  |  |
|  | Typical vs Poor resources | Rich vs Poor resources  |  Rich vs Typical resources  | Typical vs Poor resources  | Rich vs Poor resources | Rich vs Typical resources | *N* |
|  |  |  |  Mean (SD) |  |  IRR (95% CI)  |  IRR (95% CI) |  |  |
|  | Affective symptoms (age 45) |  |  |  |  |  |  |
| 1-23 or more  |   |  | 4.39 (5.28) 3.48 (4.67) 3.02 (4.22)6.02 (6.12) 5.75 (5.73) 4.76 (5.25) | **0.73\*\*\* [0.64-0.82]** 0.89 [0.75-1.05] | **0.66\*\*\* [0.57-0.76]** **0.70\*\* [0.57-0.86]** |  0.91[0.80-1.04] **0.79\* [0.66-0.96]** | **0.81\*\* [0.72-0.92]** 0.98 [0.84-1.15]  | **0.75\*\*\* [0.65-0.87]** 0.92 [0.81-1.06]0.82# [0.68-1.00] 0.84# [0.69-1.01] | *2537* *771* |
|  | Psychological distress (age 50) |  |  |  |  |  |  |
| 1-23 or more  |   |  | 1.70 (1.95) 1.41 (1.88) 1.39 (1.88)2.00 (1.99) 2.10 (2.19) 1.66 (1.96) |  **0.77\*\*\* [0.68-0.87]** 1.00 [0.83-1.20] |  **0.78\*\* [0.67-0.90]**  **0.79\* [0.62-1.00]**  |  1.01 [0.88-1.16]**0.79\* [0.63-0.99]** | **0.87\* [0.77-0.98]**1.10 [0.92-1.30] |  0.89# [0.77-1.02] 1.02 [0.90-1.17] 0.91 [0.75-1.13] 0.84# [0.68-1.03] |  *2298* *675* |

a Analyses are adjusted for gender and social class. Weighted means, standard deviations and incidence rate ratios are reported. CI = confidence interval. Significant findings are in bold. \* p<0.05, \*\* p<0.01, \*\*\* p<0.001, #=p<0.10.

Supplementary Table 3: Group comparisons across levels of social resources for participants exposed to 1 or 2, or 3 or more stressful life events, adjusted for partnership statusa

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number of stressful life events age 45 | Mid-life outcomes |  |  Group comparisons |  |
|  Typical vs Poor resources |  Rich vs Poor resources | Rich vs Typical resources | *N* |
|  |  |  |  IRR (95% CI) |  |
|  | Affective symptoms (age 45) |  |  |  |
| 1-23 or more  |   |  **0.74\*\*\* [0.66-0.84]** 0.90 [0.76-1.07] |  **0.69\*\*\* [0.59-0.79]** **0.72\*\* [0.59-0.89]** | 0.92 [0.81-1.05] **0.80\* [0.66-0.97]** | 2525763 |
|  | Psychological distress (age 50) |  |  |  |
| 1-23 or more  |   |  **0.78\*\*\* [0.69-0.88]** 1.01 [0.84-1.22] |  **0.79\*\* [0.69-0.92]**0.80# [0.63-1.02] |  1.02 [0.88-1.17] **0.79\* [0.63-0.99]** | 2288669 |

 a Analyses are adjusted for gender and social class. Weighted incidence rate ratios are reported. CI = confidence interval. Significant findings are in bold. \* p<0.05, \*\* p<0.01, \*\*\* p<0.001, # = p<0.07