Appendix Table A1. Data/variables description

|  |  |
| --- | --- |
| Variable  | Description |
| **Dependent variables** |  |
| Leaving employment | (1,0) if leaving employment |
| Change from full-time to part-time work | (1,0) if a change from full-time to part-time work |
| **Informal caregiving indicators** |  |
| Whether providing care  | (1,0) if providing care |
| Dynamics of caregiving |  |
|  Continued caregiving | (1,0) dynamics of caregiving dummy |
|  Change from caregiving to non-caregiving  | (1,0) dynamics of caregiving dummy |
|  Change from non-caregiving to caregiving | (1,0) dynamics of caregiving dummy |
| Caregiving intensity |  |
|  0-9 hours per week | (1,0) caregiving intensity dummy |
|  10-19 hours per week | (1,0) caregiving intensity dummy |
|  20 and more hours per week | (1,0) caregiving intensity dummy |
| Type of caregiving |  |
|  Co-residential care | (1,0) type of caregiving dummy |
|  Non co-residential care | (1,0) type of caregiving dummy |
|  Both | (1,0) type of caregiving dummy |
| Relationship to person cared for |  |
|  Parent/parent-in-law | (1,0) relationship to person cared for dummy |
|  Spouse/partner | (1,0) relationship to person cared for dummy |
|  Relative, friends, neighbour | (1,0) relationship to person cared for dummy |
| **Other control variables** |  |
| Female | (1,0) if respondent is female |
| Birth cohort |  |
|  Born 1946-1955 | (1,0) birth cohort dummy |
|  Born 1956-1968 | (1,0) birth cohort dummy |
| Period  |  |
|  2009-2015 | (1,0) period dummy |
|  2016-2019 | (1,0) period dummy |
| Unmarried | (1,0) if respondent is unmarried or unpartnered |
| Change in health |  |
|  Stable healthy | (1,0) change in health dummy |
|  Continued unhealthy  | (1,0) change in health dummy |
|  Change from unhealthy to healthy  | (1,0) change in health dummy |
|  Change from healthy to unhealthy | (1,0) change in health dummy |
| Educational qualification |  |
|  Degree or higher | (1,0) qualification dummy |
|  A-level | (1,0) qualification dummy |
|  O-level and below | (1,0) qualification dummy |
| Any dependent children under age 16 | (1,0) at least one dependent child under 16 in the household |
| Number of household members | Number of household members |
| Housing tenure |  |
|  Renting | (1,0) house ownership dummy |
|  Owns outright | (1,0) house ownership dummy |
|  Owns with a mortgage | (1,0) house ownership dummy |
| Higher managerial, administrative and professional occupations  | (1,0) Higher managerial, administrative and professional occupations  |
| Receiving any pensions  | (1,0) if respondent is receiving any type of pension |
| Region |  |
|  Northwest | (1,0) region dummy |
|  Yorkshire and the Humber | (1,0) region dummy |
|  East midlands | (1,0) region dummy |
|  West midlands | (1,0) region dummy |
|  East of England | (1,0) region dummy |
|  London | (1,0) region dummy |
|  Southwest | (1,0) region dummy |
|  Wales | (1,0) region dummy |
|  Scotland | (1,0) region dummy |
|  Northern Ireland | (1,0) region dummy |

Appendix Table A2. Mean statistics, UKHLS Wave 1 (aged 50-64)

|  |  |  |  |
| --- | --- | --- | --- |
|  | All | Non-carer | Carer |
| Participation (employed/self-employed) | 0.6265 | 0.6362 | 0.5969 |
| Full-time employee (self-employed included) | 0.4615 | 0.4751 | 0.4200 |
| Part-time employee (self-employed included) | 0.1642 | 0.1596 | 0.1781 |
| Informal carer | 0.2468 |  |  |
| Co-residential carer | 0.0801 |  | 0.3247 |
| None co-residential carer | 0.1812 |  | 0.7340 |
| Co- and none co-residential carer | 0.0145 |  | 0.0586 |
| Caregiving 0-4 hours per week  | 0.0925 |  | 0.3748 |
| Caregiving 5-9 hours per week  | 0.0488 |  | 0.1978 |
| Caregiving 10-19 hours per week  | 0.0481 |  | 0.1948 |
| Caregiving 20 hours or more per week  | 0.0615 |  | 0.2493 |
| Caregiving to co-residential parents | 0.0139 |  | 0.0562 |
| Caregiving to co-residential spouse/partner | 0.0423 |  | 0.1713 |
| Caregiving to none co-residential parent/in-law | 0.1325 |  | 0.5370 |
| Caregiving to none co-residential relatives  | 0.0278 |  | 0.1127 |
| Caregiving to none co-residential friends or neighbours | 0.0245 |  | 0.0993 |
| N (number of respondents)  | 11438 | 8784 | 2654 |

Source: UKHLS Wave 1 (2009/2010), weighted mean, non-weighted N.

Appendix Figure A1. Proportion of employed/self-employed by informal carers and non-carers aged 50-64 in the UK over the past ten years.

Source: UKHLS Wave 1 to Wave 10, weighted %.

Appendix Table A3. Parameter estimates from a random effects model of leaving employment at ages 50-64 years.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Model 1** | **Model 2** | **Model 3** | **Model 4** | **Model 5** |
| **Among Men (n= 25,976 person-years)** |  |  |  |  |  |
| Whether providing care  |  |  |  |  |  |
|  No (ref.) |  |  |  |  |  |
|  Yes | 0.02 |  |  |  |  |
| Dynamics of caregiving |  |  |  |  |  |
|  Continued non-caregiving (ref.) |  |  |  |  |  |
|  Continued caregiving |  | 0.04 |  |  |  |
|  Change from caregiving to non-caregiving  |  | 0.05 |  |  |  |
|  Change from non-caregiving to caregiving |  | -0.01 |  |  |  |
| Caregiving intensity |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  0-9 hours per week |  |  | **-0.22ǂ** |  |  |
|  10-19 hours per week |  |  | 0.26 |  |  |
|  20 and more hours per week |  |  | **0.80\*\*\*** |  |  |
| Type of caregiving |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  Co-residence care |  |  |  | 0.29 |  |
|  Extra household care |  |  |  | -0.10 |  |
|  Both |  |  |  | 0.23 |  |
| Relationship to person cared for |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  Parent/parent-in-law |  |  |  |  | -0.14 |
|  Spouse/partner |  |  |  |  | **0.47ǂ** |
|  Relative, friends, neighbour |  |  |  |  | 0.07 |
| **Among Women (n= 26,232 person-years)** |  |  |  |  |  |
| Whether providing care  |  |  |  |  |  |
|  No (ref.) |  |  |  |  |  |
|  Yes | **0.20\*\*** |  |  |  |  |
| Dynamics of caregiving |  |  |  |  |  |
|  Continued non-caregiving (ref.) |  |  |  |  |  |
|  Continued caregiving |  | 0.11 |  |  |  |
| Change from caregiving to non-caregiving  |  | 0.01 |  |  |  |
| Change from non-caregiving to caregiving |  | **0.36\*\*\*** |  |  |  |
| Caregiving intensity |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  0-9 hours per week |  |  | -0.09 |  |  |
|  10-19 hours per week |  |  | **0.49\*\*\*** |  |  |
|  20 and more hours per week |  |  | **0.98\*\*\*** |  |  |
| Type of caregiving |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  Co-residence care |  |  |  | **0.60\*\*** |  |
|  Extra household care |  |  |  | 0.09 |  |
|  Both |  |  |  | 0.59\* |  |
| Relationship to person cared for |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  Parent/parent-in-law |  |  |  |  | 0.09 |
|  Spouse/partner |  |  |  |  | **0.64\*\*\*** |
|  Relative, friends, neighbour |  |  |  |  | 0.19 |

Source: UKHLS Wave 1 to Wave 10. All models adjusted for the save confounder as the main models.

ǂp≤0.1; \*p≤0.05; \*\*p≤0.01; \*\*\*p≤0.001

Post model Hausman Tests p>0.05 indicating the unique errors are not correlated with the regressors and in favour of the random effects model rather than the fixed-effects models.

Appendix Table A4. Parameter estimates from a random effects model of change from full-time to part-time work at ages 50-64 years,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Model 1** | **Model 2** | **Model 3** | **Model 4** | **Model 5** |
| **Among Men (n=21,763 person-years)** |  |  |  |  |  |
| Whether providing care  |  |  |  |  |  |
|  No (ref.) |  |  |  |  |  |
|  Yes | 0.13 |  |  |  |  |
| Dynamics of caregiving |  |  |  |  |  |
|  Continued non-caregiving (ref.) |  |  |  |  |  |
|  Continued caregiving |  | **0.20ǂ** |  |  |  |
|  Change from caregiving to non-caregiving  |  | -0.01 |  |  |  |
|  Change from non-caregiving to caregiving |  | 0.02 |  |  |  |
| Caregiving intensity |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  0-9 hours per week |  |  | 0.11 |  |  |
|  10-19 hours per week |  |  | **0.52\*** |  |  |
|  20 and more hours per week |  |  | -0.23 |  |  |
| Type of caregiving |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  Co-residence care |  |  |  | 0.14 |  |
|  Extra household care |  |  |  | 0.13 |  |
|  Both |  |  |  | 0.15 |  |
| Relationship to person cared for |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  Parent/parent-in-law |  |  |  |  | **0.21ǂ** |
|  Spouse/partner |  |  |  |  | -0.23 |
|  Relative, friends, neighbour |  |  |  |  | -0.22 |
|  |  |  |  |  |  |
| **Among Women (n=23,182 person-years)** |  |  |  |  |  |
| Whether providing care  |  |  |  |  |  |
|  No (ref.) |  |  |  |  |  |
|  Yes | **0.11ǂ** |  |  |  |  |
| Dynamics of caregiving |  |  |  |  |  |
|  Continued non-caregiving (ref.) |  |  |  |  |  |
|  Continued caregiving |  | 0.11 |  |  |  |
| Change from caregiving to non-caregiving  |  | -0.17 |  |  |  |
| Change from non-caregiving to caregiving |  | 0.04 |  |  |  |
| Caregiving intensity |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  0-9 hours per week |  |  | 0.07 |  |  |
|  10-19 hours per week |  |  | 0.17 |  |  |
|  20 and more hours per week |  |  | 0.18 |  |  |
| Type of caregiving |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  Co-residence care |  |  |  | -0.04 |  |
|  Extra household care |  |  |  | **0.16\*** |  |
|  Both |  |  |  | -0.34 |  |
| Relationship to person cared for |  |  |  |  |  |
|  Non-carer (ref.) |  |  |  |  |  |
|  Parent/parent-in-law |  |  |  |  | **0.22\*\*** |
|  Spouse/partner |  |  |  |  | 0.01 |
|  Relative, friends, neighbour |  |  |  |  | -0.11 |

Source: UKHLS Wave 1 to Wave 10. All models adjusted for the save confounder as the main models.

ǂp≤0.1; \*p≤0.05; \*\*p≤0.01; \*\*\*p≤0.001

Post model Hausman Tests p>0.05 indicating the unique errors are not correlated with the regressors and in favour of the random effects model rather than the fixed-effects models.