**Title: Routes to healthy ageing: the role of life-course patterns**

**SUPPLEMENTARY MATERIAL**

Table S1: Work and family patterns in the literature.

|  |  |  |
| --- | --- | --- |
| Source | Population considered | Life-course patterns identified |
| Jalovaara & Fasang, 2020 | Both genders, from age 18 to 39 | FAMILY: 1) late marriage, 2+ children; 2) marriage, <2 children; 3) early marriage, 2+ children; 4) childless serial cohabitors; 5) Cohabiting parents; 6) unpartnered parents; 7) (almost) never-partnered childless. |
| J. S. Muller et al., 2020 | Females, from age 18 to 50 | FAMILY: 1) child with partner, stretched; 2) child with partner, early; 3) child with partner, delayed; 4) no child, with partner; 5) no child, no partner; 6) single motherhood. |
| Zagel & Van Winkle, 2020 | Females, from age 15 to 50 | FAMILY: 1) delayed family formation; 2) early family formation; 3) childless marriage; 4) singlehood; 5) divorce with children.  WORK: 1) Stable Full-time Employment; 2) labour market exit; 3) Re-entry into Part-time (after full-time employment and labour exit). |
| O’Flaherty et al., 2016 | Both genders, from ages 18 to 50 | FAMILY: 1) Standard – moderate fertility; 2) Standard – high fertility; 3) Early standard – low fertility; 4) Early standard – moderate fertility; 5) Early standard – high fertility; 6) Late family formation; 7) Premarital birth;8) Marriage without children; 9) No family formation;10) Late marital disruption with children;11) Early marital disruption with children;12) Remarriage – children 1st marriage;13) Remarriage – no children 1st marriage; 14) Disrupted marital history – high fertility. |
| Han, Liefbroer, & Elzinga, 2017 | Females, from ages 18 to 30 | FAMILY: 1) single motherhood; 2) pregnancy-triggered marriage; 3) traditional marriage; 4) late marriage; 5) cohabitation; 6) singlehood. |
| Chłoń-Domińczak et al., 2019 | Females | WORK: 1) not working (very short spells of employment at a younger age and the majority of their lives outside the labour market); 2) part-time employment (also with short episodes of full-time employment and inactivity at the beginning of the working career); 3) full-time employment (including also combined full-time work with relatively long periods of part-time employment). |
| Komp-Leukkunen, 2019 | Both genders, from age 15 to 65 | WORK: MEN: 1) workforce participation; 2) workforce participation following prolonged education; 3) workforce participation followed by non-employment; 4) workforce participation followed by a non-employment due to illness.  WOMEN: 1) workforce participation; 2) mainly homemaking. |
| Zella & Harper, 2018 | Females, 30 years before retirement | WORK: 1) Full-time employment; 2) Domestic duties; 3) Combined domestic duties and full-time employment; 4) Combined domestic and part-time employment; 5) Other mixed-trajectories. |
| Ponomarenko, 2016 | Both genders, from ages 15 to 60 | WORK: MEN: 1) Higher Educated (high education + full-time employment); 2) Full-time employment; 3) Inactivity; 4) Early retirement.  WOMEN: 1) Full-time; 2) Part-time; 3) Late Entry; 4) Inactivity (low education); 5) Unstable exit (stable employment and then unemployed or part-time); 6) Early retirement. |
| Kovalenko & Mortelmans, 2014 | Both genders | WORK: 1) Traditional; 2) Transitional; 3) Inactive; 4) Mixed; 5) Unemployed; 6) Intermittent. |
| Lu et al., 2016 | Both genders, from ages 16 to 64 | WORK: MEN: 1) employed full-time throughout; 2) not employed throughout; 3) fulltime throughout until early exit at 49; 4) fulltime throughout until early exit at 60 years; 5) late start of paid work and exit at 60 years.  WOMEN: 1) employed full-time throughout; 2) not employed throughout/family carers; 3) weak attachment to the labour market and early exit; 4) family carer to part-time (longer career break); 5) Family carer to part-time (short career break); 6) family care to full-time; 7) full-time to part-time work. |
| Wahrendorf 2015 | Both genders, from ages 30 to 65 | WORK: 1) work full-time; 2) work part-time; 3) domestic work; 4) unemployed; 5) retired. |
| Di Gessa et al., 2020 | Both genders, from ages 16 to 64 | WORK: MEN: 1) employed full-time throughout; 2) not employed throughout; 3) fulltime up to 59; 4) early exit at 49; 5) start of paid work at 23 and exit at 60.  WOMEN: 1) employed full-time throughout; 2) employed mostly part-time throughout; 3) not employed throughout; 4) early exit at 48; 5) with a short career break between 26 and 30 followed by part-time employment; 6) with a long career break between 26 and 41 followed by part-time employment; 7) with a medium career break between 26 and 34 followed by full-time employment. |

Figure S1. Global Activity Limitation Instrument (GALI) by gender and country (welfare state).

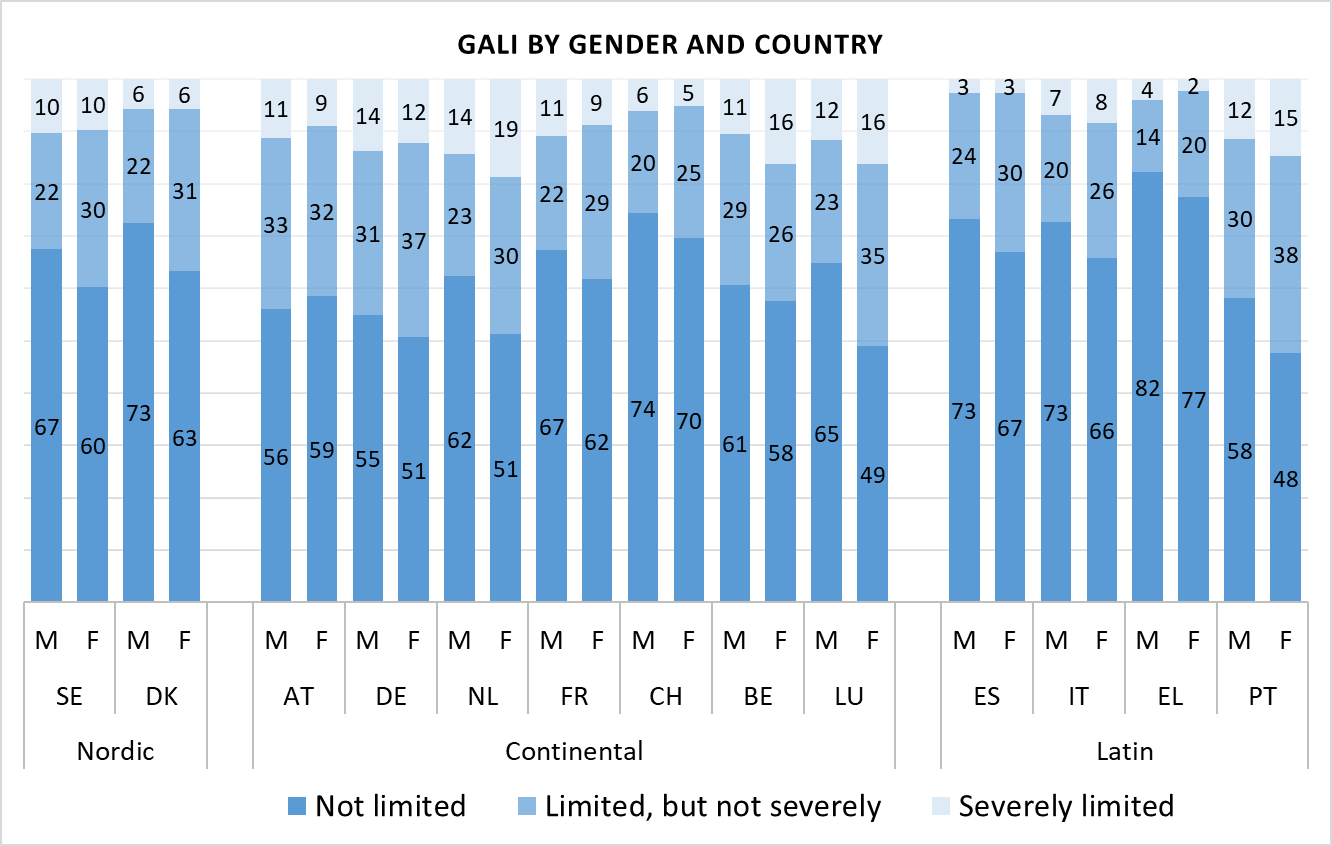


Table S2. Global Activity Limitation Instrument by work and family patterns and the welfare state.

|  | Models 4 ‘Full welfare’ | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | MALE (n=7578) | | | FEMALE (n=8374) | | | |
| VARIABLES | Nordic | Continental | Latin | Nordic | Continental | Latin |
|  | OR (SE) | OR (SE) | OR (SE) | OR (SE) | OR (SE) | OR (SE) |
| Age | 1.016 | 0.992 | 0.988 | 0.942 | **1.082\*\*\*** | 1.047 |
|  | (0.040) | (0.021) | (0.030) | (0.032) | (0.021) | (0.026) |
| CSC index | 0.988 | 1.005 | 1.114 | 0.960 | **1.089\*** | 1.078 |
|  | (0.085) | (0.040) | (0.067) | (0.074) | (0.041) | (0.055) |
| Child health (Fair/Poor) | **2.353\*\*\*** | **1.527\*\*\*** | 1.420 | **1.617\*** | **1.790\*\*\*** | **2.231\*\*\*** |
| (0.587) | (0.162) | (0.276) | (0.324) | (0.159) | (0.320) |
| Education (Medium) | 0.983 | 0.942 | **0.602\*\*\*** | 0.899 | 0.869 | **0.546\*\*\*** |
| (0.161) | (0.084) | (0.078) | (0.139) | (0.066) | (0.071) |
| Education (High) | 0.907 | 0.902 | **0.553\*\*** | 0.942 | **0.823\*** | **0.473\*\*\*** |
| (0.186) | (0.101) | (0.107) | (0.169) | (0.078) | (0.088) |
| Physical injury (Yes) | **4.223\*\*\*** | **2.690\*\*\*** | **3.456\*\*\*** | **4.800\*\*\*** | **3.685\*\*\*** | **2.582\*\*\*** |
| (0.639) | (0.246) | (0.469) | (0.663) | (0.357) | (0.378) |
| ISCO | **1.082\*** | **1.047\*\*** | **1.063\*\*** | **1.119\*\*** | 1.030 | 1.001 |
|  | (0.034) | (0.017) | (0.025) | (0.040) | (0.016) | (0.015) |
| No. of children | **1.176\*** | 1.034 | 1.096 | 0.997 | 1.024 | **1.120\*\*** |
|  | (0.080) | (0.035) | (0.052) | (0.072) | (0.032) | (0.045) |
| Work pattern*(Ref: long educ. & cont. empl.)* |  |  |  |  |  |  |
| Full working career | 1.253 | **1.228\*** | 0.879 | 1.169 | **0.817\*** | 0.969 |
|  | (0.200) | (0.117) | (0.193) | (0.169) | (0.066) | (0.131) |
| Mixed career | **2.296\*** | **2.585\*\*\*** | 1.771 | **1.923\*\*** | 1.018 | 0.799 |
| (0.842) | (0.552) | (0.533) | (0.432) | (0.107) | (0.140) |
| No/little employment |  |  |  | **3.261\*\*\*** | **1.224\*** | 0.993 |
|  |  |  | (0.960) | (0.104) | (0.123) |
| Family patterns *(Ref: standard family)* |  |  |  |  |  |  |
| Early family | 0.853 | 1.108 | 1.213 | 1.046 | 1.063 | 1.144 |
|  | (0.159) | (0.099) | (0.169) | (0.147) | (0.081) | (0.112) |
| Childless couple | 1.588 | 1.238 | 0.860 | 1.199 | 1.015 | 1.169 |
|  | (0.459) | (0.171) | (0.191) | (0.357) | (0.146) | (0.222) |
| Remained single | 1.857 | 1.336 | 0.972 | 1.444 | 1.316 | 1.348 |
|  | (0.656) | (0.211) | (0.245) | (0.629) | (0.225) | (0.334) |
| Single parenthood | 0.799 | 1.200 | 0.946 | 1.144 | **1.292\*** | 0.780 |
| (0.237) | (0.179) | (0.344) | (0.245) | (0.140) | (0.219) |
| Unstable relations | 1.314 | **1.331\*** | 0.665 | 1.309 | **1.382\*\*** | 1.233 |
| (0.237) | (0.148) | (0.206) | (0.216) | (0.152) | (0.328) |
| /cut1 | 47.351 | 58.659 | 29.645 | 33.067 | 84.325 | 15.219 |
|  | (31.098) | (16.653) | (23.324) | (27.788) | (16.128) | (20.856) |
| /cut2 | 49.102 | 60.320 | 31.618 | 35.323 | 86.132 | 17.377 |
|  | (31.100) | (16.655) | (23.326) | (27.790) | (16.131) | (20.857) |
| *Observations* | *1,271* | *3,969* | *2,338* | *1,468* | *4,376* | *2,530* |

Note: Ordered logistic regression; Odds ratio (OR) and robust SE. GALI: 1=not limited; 2= limited; 3= severely limited. All models are adjusted by the interview year. CSC Index (Childhood Socioeconomic Circumstances index). ISCO has value ‘0’ for those who never worked. \*\*\* p<0.001; \*\* p<0.01; \* p<0.05.

Table S3. Global Activity Limitation Instrument by life course patterns and the welfare state.

|  | Model 5 ‘Full welfare with interaction’ | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | MALE (n=7578) | | | | FEMALE (n=8374) | | | |
| VARIABLES | Nordic | Continental | Latin | Nordic | | Continental | Latin |
|  | OR (SE) | OR (SE) | OR (SE) | OR (SE) | | OR (SE) | OR (SE) |
| Age | 1.009 | 0.992 | 0.988 | 0.939 | | **1.081\*\*\*** | 1.049 |
|  | (0.039) | (0.021) | (0.030) | (0.032) | | (0.021) | (0.026) |
| CSC index | 0.988 | 1.003 | 1.110 | 0.957 | | **1.086\*** | 1.073 |
|  | (0.085) | (0.040) | (0.067) | (0.073) | | (0.041) | (0.055) |
| Child health (Fair/Poor) | **2.601\*\*\*** | **1.534\*\*\*** | 1.438 | **1.625\*** | | **1.797\*\*\*** | **2.236\*\*\*** |
|  | (0.634) | (0.162) | (0.278) | (0.330) | | (0.160) | (0.318) |
| Education (Medium) | 0.964 | 0.941 | **0.594\*\*\*** | 0.902 | | 0.883 | **0.550\*\*\*** |
|  | (0.158) | (0.084) | (0.077) | (0.139) | | (0.067) | (0.072) |
| Education (High) | 0.901 | 0.902 | **0.539\*\*** | 0.959 | | 0.840 | **0.443\*\*\*** |
|  | (0.182) | (0.100) | (0.105) | (0.171) | | (0.080) | (0.083) |
| Physical injury (Yes) | **4.153\*\*\*** | **2.714\*\*\*** | **3.497\*\*\*** | **4.807\*\*\*** | | **3.720\*\*\*** | **2.568\*\*\*** |
|  | (0.625) | (0.248) | (0.472) | (0.664) | | (0.359) | (0.375) |
| ISCO | **1.080\*** | **1.047\*\*** | **1.064\*\*** | **1.113\*\*** | | **1.032\*** | 1.003 |
|  | (0.034) | (0.017) | (0.025) | (0.040) | | (0.016) | (0.015) |
| No. of children | 1.085 | 1.019 | **1.121\*\*** | 0.980 | | 1.022 | **1.107\*\*** |
|  | (0.060) | (0.027) | (0.043) | (0.056) | | (0.027) | (0.037) |
| Family pattern (Non-standard) | 1.272 | 1.091 | 0.388 | 1.318 | | 1.128 | 0.832 |
| (0.291) | (0.158) | (0.210) | (0.194) | | (0.106) | (0.142) |
| Work pattern |  |  |  |  | |  |  |
| Full working career | 1.390 | 1.152 | 0.717 | 1.476 | | 0.871 | 0.823 |
|  | (0.285) | (0.133) | (0.169) | (0.362) | | (0.130) | (0.185) |
| Mixed career | 0.271 | **2.810\*\*** | 1.535 | **2.926\*** | | 0.850 | 0.746 |
|  | (0.233) | (0.973) | (0.564) | (1.442) | | (0.153) | (0.204) |
| No/little employment |  |  |  | **7.417\*\*** | | 1.154 | 0.712 |
|  |  |  |  | (5.465) | | (0.163) | (0.127) |
| Family patterns × work pattern (*Ref.:* *standard family × long educ. & cont. employment)* |  |  |  |  | |  |  |
| Non-standard fam. × Full working career | 0.778 | 1.138 | 2.839 | 0.728 | | 0.921 | 1.299 |
| (0.215) | (0.185) | (1.563) | (0.212) | | (0.162) | (0.363) |
| Non-standard fam. × Mixed career | **11.089\*** | 0.927 | 2.440 | 0.581 | | 1.270 | 1.126 |
| (10.377) | (0.408) | (1.663) | (0.315) | | (0.278) | (0.397) |
| Non-standard fam. × No/little empl. |  |  |  | 0.358 | | 1.059 | **1.731\*** |
|  |  |  | (0.285) | | (0.180) | (0.371) |
| /cut1 | 56.667 | 59.919 | 31.280 | 32.228 | | 85.499 | 9.868 |
|  | (30.522) | (16.663) | (23.934) | (28.083) | | (16.304) | (20.603) |
| /cut2 | 58.416 | 61.579 | 33.253 | 34.487 | | 87.303 | 12.029 |
|  | (30.524) | (16.665) | (23.933) | (28.083) | | (16.306) | (20.599) |
| *Observations* | *1,271* | *3,969* | *2,338* | *1,468* | | *4,376* | *2,530* |

Note: Ordered logistic regression; Odds ratio (OR) and robust SE. GALI: 1=not limited; 2= limited; 3= severely limited. All models are adjusted by the interview year. CSC Index (Childhood Socioeconomic Circumstances index). ISCO has value ‘0’ for those who never worked. Non-standard family includes early family, childless unions, singlehood, single parenthood, and unstable relationships. \*\*\* p<0.001; \*\* p<0.01; \* p<0.05.

Table S4. Health measures by work and family patterns.

| VARIABLES | ADL | | IADL | | Chronic diseases | |
| --- | --- | --- | --- | --- | --- | --- |
|  | Male | Female | Male | Female | Male | Female |
| Age | -0.002 | 0.001 | 0.005 | 0.005 | **0.041\*\*\*** | **0.042\*\*\*** |
|  | (0.003) | (0.004) | (0.004) | (0.004) | (0.006) | (0.006) |
| CSC index | 0.007 | 0.003 | 0.008 | 0.006 | -0.012 | 0.014 |
|  | (0.007) | (0.008) | (0.008) | (0.008) | (0.012) | (0.011) |
| Child health (Fair/Poor) | 0.029 | **0.136\*\*\*** | **0.057\*** | **0.163\*\*\*** | **0.172\*\*\*** | **0.264\*\*\*** |
| (0.025) | (0.030) | (0.028) | (0.030) | (0.039) | (0.037) |
| Education (Medium) | -0.012 | **-0.033\*** | **-0.041\*** | **-0.071\*\*\*** | **-0.083\*\*** | **-0.066\*\*** |
| (0.016) | (0.016) | (0.019) | (0.018) | (0.025) | (0.025) |
| Education (High) | -0.020 | **-0.064\*\*\*** | -0.041 | **-0.090\*\*\*** | **-0.084\*\*** | **-0.136\*\*\*** |
| (0.019) | (0.019) | (0.024) | (0.021) | (0.031) | (0.030) |
| Physical injury (Yes) | **0.198\*\*\*** | **0.220\*\*\*** | **0.190\*\*\*** | **0.305\*\*\*** | **0.350\*\*\*** | **0.345\*\*\*** |
| (0.028) | (0.031) | (0.030) | (0.033) | (0.032) | (0.035) |
| ISCO | 0.001 | 0.007 | 0.001 | 0.002 | **0.019\*\*\*** | **0.017\*\*** |
|  | (0.003) | (0.004) | (0.004) | (0.004) | (0.005) | (0.006) |
| No. of children | 0.001 | **0.024\*** | -0.001 | **0.017\*** | **0.021\*** | **0.031\*\*** |
|  | (0.006) | (0.010) | (0.005) | (0.008) | (0.011) | (0.010) |
| Family patterns *(Ref: standard family)* |  |  |  |  |  |  |
| Early family | 0.031 | -0.003 | 0.019 | 0.009 | **0.061\*** | **0.045\*** |
|  | (0.018) | (0.014) | (0.018) | (0.015) | (0.028) | (0.022) |
| Childless couple | 0.036 | **0.091\*\*** | 0.029 | **0.063\*** | **0.132\*\*\*** | **0.160\*\*\*** |
|  | (0.027) | (0.034) | (0.027) | (0.029) | (0.040) | (0.043) |
| Remained single | 0.072 | 0.060 | **0.186\*\*** | **0.088\*** | 0.059 | **0.106\*** |
|  | (0.039) | (0.036) | (0.057) | (0.042) | (0.049) | (0.052) |
| Single parenthood | 0.010 | 0.024 | 0.015 | 0.040 | 0.072 | **0.098\*\*** |
| (0.029) | (0.023) | (0.029) | (0.027) | (0.047) | (0.036) |
| Unstable relations | **0.044\*** | 0.027 | 0.025 | 0.038 | **0.135\*\*\*** | **0.149\*\*\*** |
| (0.022) | (0.023) | (0.020) | (0.023) | (0.036) | (0.033) |
| Work patterns *(Ref: long educ. & cont. empl.)* |  |  |  |  |  |  |
| Full working career | 0.015 | -0.024 | 0.018 | -0.028 | **0.067\*\*** | -0.029 |
|  | (0.016) | (0.014) | (0.016) | (0.015) | (0.025) | (0.024) |
| Mixed career | **0.242\*\*\*** | **-0.044\*** | **0.316\*\*\*** | -0.029 | **0.350\*\*\*** | 0.058 |
|  | (0.068) | (0.019) | (0.079) | (0.021) | (0.070) | (0.035) |
| Early retirement |  | 0.185 |  | **0.321\*** |  | **0.242\*** |
|  |  | (0.119) |  | (0.157) |  | (0.123) |
| No employment |  | 0.054 |  | **0.099\*\*** |  | **0.098\*** |
|  |  | (0.033) |  | (0.036) |  | (0.050) |
| Employed then active |  | 0.010 |  | **0.061\*** |  | 0.024 |
|  |  | (0.023) |  | (0.025) |  | (0.032) |
| Constant | -2.231 | -1.157 | -2.792 | -8.387\* | -2.375 | -6.203 |
|  | (2.947) | (3.137) | (3.251) | (3.407) | (4.728) | (4.687) |
| *Observations* | *7,578* | *8,374* | *7,578* | *8,374* | *7,578* | *8,374* |
| R-squared | 0.037 | 0.043 | 0.041 | 0.058 | 0.071 | 0.074 |

Note: OLS, Beta (SE). Models adjusted by country and interview year. CSC Index (Childhood Socioeconomic Circumstances index). ISCO has value ‘0’ for those who never worked. ‘No work’ pattern includes ‘Mostly unemployed’ and ‘Inactive’. \*\*\* p<0.001, \*\* p<0.01, \* p<0.05.

Table S5. Health measures by life-course patterns.

| VARIABLES | ADL | | IADL | | Chronic diseases | |
| --- | --- | --- | --- | --- | --- | --- |
| Male | Female | Male | Female | Male | Female |
| Age | -0.002 | 0.001 | 0.005 | 0.005 | **0.041\*\*\*** | **0.042\*\*\*** |
|  | (0.003) | (0.004) | (0.004) | (0.004) | (0.006) | (0.006) |
| CSC index | 0.007 | 0.003 | 0.008 | 0.006 | -0.011 | 0.017 |
|  | (0.007) | (0.008) | (0.008) | (0.008) | (0.012) | (0.011) |
| Child health (Fair/Poor) | 0.029 | **0.135\*\*\*** | 0.054 | **0.161\*\*\*** | **0.170\*\*\*** | **0.263\*\*\*** |
|  | (0.025) | (0.030) | (0.028) | (0.030) | (0.039) | (0.037) |
| Education (Medium) | -0.011 | **-0.036\*** | **-0.042\*** | **-0.071\*\*\*** | **-0.083\*\*** | **-0.068\*\*** |
|  | (0.016) | (0.015) | (0.019) | (0.017) | (0.025) | (0.025) |
| Education (High) | -0.020 | **-0.069\*\*\*** | -0.044 | **-0.092\*\*\*** | **-0.084\*\*** | **-0.142\*\*\*** |
|  | (0.019) | (0.018) | (0.024) | (0.020) | (0.031) | (0.028) |
| Physical injury (Yes) | **0.198\*\*\*** | **0.221\*\*\*** | **0.189\*\*\*** | **0.304\*\*\*** | **0.348\*\*\*** | **0.345\*\*\*** |
|  | (0.028) | (0.031) | (0.030) | (0.033) | (0.032) | (0.035) |
| ISCO | 0.001 | 0.005 | 0.002 | 0.001 | **0.019\*\*\*** | **0.013\*\*** |
|  | (0.003) | (0.003) | (0.004) | (0.003) | (0.005) | (0.004) |
| No. of children | 0.001 | 0.023\* | -0.001 | 0.016 | 0.020 | **0.028\*\*** |
|  | (0.006) | (0.010) | (0.005) | (0.009) | (0.011) | (0.010) |
| Family patterns *(Ref: standard family)* |  |  |  |  |  |  |
| Early family | -0.020 | -0.011 | -0.027 | -0.008 | 0.022 | 0.060 |
|  | (0.025) | (0.020) | (0.023) | (0.022) | (0.063) | (0.033) |
| Remained single | 0.068 | 0.029 | 0.071 | -0.013 | 0.129 | 0.118 |
|  | (0.074) | (0.041) | (0.079) | (0.039) | (0.097) | (0.069) |
| Childless couple | 0.007 | **0.108\*** | -0.025 | 0.039 | **0.177\*\*** | **0.125\*** |
|  | (0.046) | (0.047) | (0.034) | (0.038) | (0.062) | (0.054) |
| Single parenthood | **-0.054\*** | 0.007 | **-0.065\*\*\*** | 0.005 | -0.036 | **0.145\*\*** |
|  | (0.023) | (0.026) | (0.016) | (0.029) | (0.087) | (0.049) |
| Unstable relations | 0.032 | 0.018 | -0.013 | 0.000 | 0.123 | **0.118\*\*** |
|  | (0.041) | (0.031) | (0.024) | (0.028) | (0.064) | (0.044) |
| Work patterns*(Ref: long educ. & cont. employment)* |  |  |  |  |  |  |
| Full working career | 0.002 | -0.010 | -0.010 | -0.042 | **0.070\*** | 0.024 |
|  | (0.018) | (0.025) | (0.019) | (0.024) | (0.029) | (0.042) |
| Mixed career | **0.167\*** | **-0.053\*** | 0.142 | -0.044 | **0.255\*\*** | 0.043 |
|  | (0.085) | (0.022) | (0.088) | (0.031) | (0.097) | (0.059) |
| No/little employment |  | 0.001 |  | 0.021 |  | 0.034 |
|  |  | (0.027) |  | (0.029) |  | (0.040) |
| Early family × Full working career | 0.058 | -0.022 | **0.059\*** | 0.005 | 0.039 | **-0.143\*** |
| (0.031) | (0.033) | (0.030) | (0.032) | (0.070) | (0.056) |
| Early family × Mixed career | 0.129 | 0.038 | 0.050 | -0.014 | 0.172 | 0.024 |
| (0.161) | (0.038) | (0.143) | (0.040) | (0.227) | (0.080) |
| Early family × No/little employment |  | 0.033 |  | 0.064 |  | 0.044 |
|  | (0.035) |  | (0.038) |  | (0.052) |
| Remained single × Full working career | -0.007 | -0.002 | 0.089 | 0.056 | -0.089 | -0.085 |
| (0.083) | (0.060) | (0.099) | (0.060) | (0.107) | (0.109) |
| Remained single × Mixed career | 0.133 | -0.057 | 0.597 | 0.100 | -0.007 | 0.115 |
|  | (0.199) | (0.058) | (0.321) | (0.150) | (0.201) | (0.231) |
| Remained single × No/little employment |  | 0.235 |  | **0.583\*** |  | -0.081 |
|  |  | (0.169) |  | (0.235) |  | (0.147) |
| Childless couple × Full working career | 0.029 | -0.067 | 0.049 | 0.013 | -0.063 | 0.086 |
| (0.051) | (0.058) | (0.041) | (0.050) | (0.069) | (0.096) |
| Childless couple × Mixed career | 0.203 | -0.089 | 0.529 | 0.008 | 0.009 | -0.127 |
| (0.306) | (0.052) | (0.346) | (0.073) | (0.246) | (0.117) |
| Childless couple × No/little employment |  | 0.011 |  | 0.073 |  | 0.060 |
|  | (0.082) |  | (0.083) |  | (0.110) |
| Single parenthood × Full working career | **0.076\*** | -0.040 | **0.100\*** | 0.002 | 0.132 | -0.081 |
| (0.038) | (0.051) | (0.040) | (0.068) | (0.102) | (0.090) |
| Single parenthood × Mixed career | 0.176 | 0.004 | 0.188 | 0.128 | 0.195 | -0.025 |
| (0.404) | (0.072) | (0.232) | (0.128) | (0.294) | (0.145) |
| Single parenthood × No/little employment |  | 0.169 |  | 0.135 |  | **-0.246\*** |
|  | (0.104) |  | (0.099) |  | (0.103) |
| Unstable relations × Full working career | 0.018 | 0.020 | 0.053 | 0.066 | -0.008 | 0.005 |
| (0.049) | (0.057) | (0.036) | (0.053) | (0.077) | (0.076) |
| Unstable relations × Mixed career | 0.003 | 0.010 | 0.074 | 0.072 | **0.602\*** | 0.162 |
| (0.210) | (0.086) | (0.166) | (0.088) | (0.243) | (0.148) |
| Unstable relations × No/little employment |  | -0.011 |  | 0.072 |  | 0.095 |
|  | (0.063) |  | (0.089) |  | (0.103) |
| Constant | -2.239 | -1.064 | -2.990 | **-8.129\*** | -2.252 | -6.049 |
|  | (2.929) | (3.128) | (3.240) | (3.399) | (4.733) | (4.685) |
| *Observations* | *7,578* | *8,374* | *7,578* | *8,374* | *7,578* | *8,374* |
| R-squared | 0.038 | 0.045 | 0.046 | 0.061 | 0.072 | 0.076 |

Note: OLS, Beta (SE). Models adjusted by country and interview year. CSC Index (Childhood Socioeconomic Circumstances index). ISCO has value ‘0’ for those who never worked. \*\*\* p<0.001, \*\* p<0.01, \* p<0.05.

Table S6. Global Activity Limitation Instrument by life course patterns and contemporary variables (N= 15298).

| Outcome:  GALI | MALE (n=7249) | | FEMALE (n=8049) | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Model 2 + contemporary var | Model 3 + contemporary var | Model 2 + contemporary var | | Model 3 + contemporary var | |
| Age | 0.984 (0.016) | 0.983 (0.016) | **1.043\*\*** (0.015) | | **1.044\*\*** (0.015) | |
| CSC index | 1.015 (0.033) | 1.015 (0.033) | 1.040 (0.031) | | 1.048 (0.031) | |
| Child health (fair/poor) | **1.492\*\*\*** (0.133) | **1.492\*\*\*** (0.132) | **1.748\*\*\*** (0.127) | | **1.729\*\*\*** (0.126) | |
| Education (medium) | **0.864\*** (0.061) | **0.862\*** (0.061) | 0.894 (0.057) | | **0.880\*** (0.055) | |
| Education (high) | 0.846 (0.077) | 0.842 (0.077) | 0.874 (0.70) | | **0.853\*** (0.066) | |
| Injury (yes) | **3.108\*\*\*** (0.218) | **3.113\*\*\*** (0.219) | **3.528\*\*\*** (0.246) | **3.534\*\*\*** (0.247) | |
| ISCO | **1.032\*** (0.013) | **1.032\*** (0.013) | **1.033\*** (0.014) | | 1.017 (0.011) | |
| No. of children | **1.070\*** (0.030) | **1.069\*** (0.030) | 1.035 (0.026) | 1.030 (0.026) | |
| Making ends meet | **0.726\*\*\*** (0.024) | **0.726\*\*\*** (0.023) | **0.702\*\*\*** (0.020) | **0.697\*\*\*** (0.020) | |
| Activities/social participation (y) | **0.782\*\*\*** (0.044) | **0.780\*\*\*** (0.044) | **0.881\*** (0.046) | **0.875\*\*** (0.045) | |
| Household type (Ref. alone) |  |  |  |  | |
| With partner | 0.908 (0.089) | 0.903 (0.089) | 1.015 (0.072) | 1.006 (0.072) | |
| With others | 0.883 (0.094) | 0.877 (0.094) | 1.037 (0.086) | 1.030 (0.086) | |
| Living area (Ref. rural) |  |  |  |  | |
| Large/small town | 0.905 (0.057) | 0.903 (0.057) | 0.902 (0.051) | 0.904 (0.052) | |
| A big city/metropolitan area | **0.825\*\*** (0.058) | **0.825\*\*** (0.058) | 0.907 (0.059) | 0.906 (0.059) | |
| Work pattern *(Ref: long educ. & cont. empl.)* |  |  |  |  | |
| Full working career | 1.105 (0.089) | 1.059 (0.101) | 0.939 (0.060) | | 1.032 (0.116) | |
| Mixed career | **2.154\*\*\*** (0.331) | **2.078\*\*** (0.501) | 1.028 (0.090) | 0.937 (0.142) | |
| Early retirement |  |  | **1.804\*** (0.474) |  | |
| No employment |  |  | **1.497\*\*\*** (0.182) | |  | |
| Employed then inactive |  |  | 1.150 (0.090) |  | |
| No/little employment |  |  |  | 1.139 (0.121) | |
| Family pattern *(Ref: standard family)* |  |  |  |  | |
| Early family | 1.038 (0.076) | 0.907 (0.192) | 1.062 (0.062) | 1.082 (0.094) | |
| Remained single | 1.133 (0.163) | 1.070 (0.335) | 1.227 (0.182) | 0.901 (0.182) | |
| Childless couple | 1.148 (0.130) | 0.929 (0.203) | 1.091 (0.122) | 1.051 (0.166) | |
| Single parenthood | 0.998 (0.140) | 0.700 (0.244) | 1.167 (0.119) | 1.209 (0.157) | |
| Unstable relations | **1.228\*** (0.115) | 1.407 (0.262) | **1.324\*\*\*** (0.116) | 1.235 (0.145) | |
| Family patterns × work pattern (*Ref.:* *standard family × long educ. & cont. employment)* |  |  |  |  | |
| Early family × full working career |  | 1.177 (0.265) |  | 0.763 (0.119) | |
| Early family × mixed career |  | 0.933 (0.409) |  | 1.132 (0.226) | |
| Early family × no/little employment |  |  |  | 1.100 (0.147) | |
| Remained single × full working career |  | 1.051 (0.344) |  | 1.271 (0.398) | |
| Remained single × mixed career |  | 1.144 (0.537) |  | **2.906\*** (1.354) | |
| Remained single × no/little employment |  |  |  | **2.673\*** (1.047) | |
| Childless couple × full working career |  | 1.284 (0.305) |  | 1.098 (0.267) | |
| Childless couple × mixed career |  | 1.567 (0.842) |  | 0.789 (0.296) | |
| Childless couple × no/little employment |  |  |  | 1.031 (0.284) | |
| Single parenthood × full working career |  | 1.569 (0.585) |  | 0.767 (0.183) | |
| Single parenthood × mixed career |  | 0.987 (0.658) |  | 0.928 (0.305) | |
| Single parenthood × no/little employment |  |  |  | 1.76 (0.321) | |
| Unstable relations × full working career |  | 0.824 (0.177) |  | 1.033 (0.211) | |
| Unstable relations × mixed career |  | 1.135 (0.604) |  | 1.315 (0.466) | |
| Unstable relations × no/little employment |  |  |  | 1.209 (0.316) | |
| /cut1 | 52.393 (13.506) | 52.521 (13.522) | 51.137 (12.408) | | 51.101 (12.417) | |
| /cut2 | 54.186 (13.507) | 54.314 (13.523) | 53.155 (12.408) | | 53.121 (12.417) | |

Notes: Ordered logistic regression; OR and robust SE. GALI: 1 = not limited; 2 = limited; 3 = severely limited. All models are adjusted by country and interview year. CSC index (Childhood Socioeconomic Circumstances index). ISCO has value ‘0’ for those who have never held employment. In Model 3 we group employment patterns 4 –7 for women. \*\*\* p<0.001; \*\* p<0.01; \* p<0.05.