### Appendix A: Post-hoc tests to account for potential heterogeneity

To better understand potential differences due to heterogeneity caused by care givers and care takers characteristics, we conducted several group comparisons based on permutation tests. Within permutation tests, researchers compute group-specific path coefficients. To do so, not all respondents from a group are used; rather, researchers randomly draw respondents without replacement from the aggregate data set and compute these group-specific path coefficients and the difference between the two groups. This process is repeated 5,000 times to derive confidence intervals that allow researchers to test for significant differences between the path coefficients (Hair et al. 2018).

In this study, we compared the following groups:

1. **relationship** between the care giver and care taker   
   (care giver is [1] the partner or [2] the child/daughter in law/son in law)[[1]](#footnote-1)
2. **time** required for care ([1] up to 10 hours per week or [2] more than 10 hours per week\*)
3. substantial **degree of care necessary** (“Pflegegrad”; [1]- yes; [2] – no)
4. **gender** care **receiver** ([1] – male, [2] female)
5. **gender** care **giver** ([1] – male, [2] female)
6. **income** of the care giver ([1] – up to 3000 Euro; [2] – more than 3000 Euro per month net income ]\*
7. **age** care **taker** ([1] – up to 77; [2] – older than 77)\*
8. **age** care **giver** ([1] – up to 54; [2] – older than 54)\*

Note: \* The two groups were defined based on the median value.

Based on our estimations, we conclude that the main findings are highly robust. Concerning the impact of the three burden dimensions on overall burden, we only observe significant differences for ***three out of 24*** comparisons (in total, we estimated 48 relationships). It turns out that, emotional burden has a higher impact on overall burden for children than for care givers that take care of their partners (see Table A.1).

Furthermore, we observe two significant differences when taking the age of the care receiver into account (Table A.13). Care givers that care older people state that emotional burden has a higher impact on overall burden. In contrast, the results suggest that physical burden of the care giver has a lower impact on overall burden.

Emotional burden has the highest and physical burden the second-highest impact on overall burden for *all* of the 16 groups that have been tested. In other words, the rank order is stable for all groups. Financial burden has the lowest influence on overall burden - even for those respondents with low income (second row in Table A.11). Emotional burden is more influential than physical burden regardless of the age of the care giver or care receiver, the gender of the care giver or care receiver, the amount of care needed each week, or the relationship between care giver and care receiver.

All in all, we conclude that our finding, that perceived ***emotional burden*** represents the most, that physical burden is the second, and financial burden the least important factor that influence overall burden is *highly stable*.

Concerning the impact of the five caregiving domains on overall burden (i.e. the ***total effects***), only four from 40 comparisons (8 factors \* 5 caregiving dimensions) were significantly different between the two respective groups. The *age of the care receiver* ([1] up to 77 vs. [2] older than 77) influenced the intensity of household assistance as well as emotional/social support on overall burden (Table A.14). Both factors are more influential on overall burden for care givers of older care receivers. Furthermore, for caregivers of households with higher income the intensity of household assistance had a lower impact on overall burden (Table A.12). Finally, support in organizational matters had a higher impact on overall burden for care givers that care for less than 10 hours per week (Table A.4). In summary, the results again support our statements in the paper’s conclusions section.

Our results are also stable when considering the absolute influence of total effects of the five caregiving domains on overall burden. For example, support in organizational matters represents the most important factor on overall burden in 13 groups while they are the second most important factor for two groups (Table A.12 - high income, Table A.4 - care for more than 10 hours) and the third most important factor for one group (Table A.10 - male caregiver). In total, we therefore conclude that support in organizational matters is a focal driver for overall burden.

We also observe robust findings when assessing the influence of the five caregiving domains on the three burden dimensions. In total, we estimated ***240 relationships*** (8 factors \* 2 groups per factor \* 15 relationships per group) and thus 120 comparisons. Merely ***eleven*** comparisons turned out to be significant between the two respective groups (Table A.3, Table A.5, Table A.7, Table A.11, Table A.13. and Table A.15).

**Table A.1: Relationship between care giver and care receiver – comparison of coefficients**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Coefficients | | Permutation p-Values |
|  | Partner (n=832) | Child/daughter in law/son in law (n=597) |
| Intensity of emotional/social support -> emotional burden | 0.212\*\*\* | 0.136\*\*\* | 0.301 |
| Intensity of emotional/social support -> financial burden | 0.156\*\* | 0.150\*\*\* | 0.937 |
| Intensity of emotional/social support -> physical burden | 0.078 | 0.141\*\*\* | 0.35 |
| Intensity of household assistance -> emotional burden | 0.157\*\* | 0.087 | 0.385 |
| Intensity of household assistance -> financial burden | 0.058 | 0.178\*\*\* | 0.093 |
| Intensity of household assistance -> physical burden | 0.026 | 0.094\*\* | 0.36 |
| Intensity of personal care -> emotional burden | -0.025 | 0.069 | 0.264 |
| Intensity of personal care -> financial burden | 0.107 | 0.155\*\*\* | 0.544 |
| Intensity of personal care -> physical burden | 0.394\*\*\* | 0.252\*\*\* | 0.08 |
| Intensity of support in organizational matters -> emotional burden | 0.207\*\*\* | 0.240\*\*\* | 0.66 |
| Intensity of support in organizational matters -> financial burden | 0.027 | 0.026 | 0.987 |
| Intensity of support in organizational matters -> physical burden | 0.101 | 0.113\*\*\* | 0.848 |
| Intensity of medical care -> emotional burden | 0.037 | 0.084\*\* | 0.504 |
| Intensity of medical care -> financial burden | 0.050 | 0.150\*\*\* | 0.181 |
| Intensity of medical care -> physical burden | 0.019 | 0.141\*\*\* | 0.083 |
| Emotional burden -> overall perceived burden of care | 0.473\*\*\* | 0.591\*\*\* | ***0.035\*\**** |
| Financial burden -> overall perceived burden of care | 0.002 | 0.012 | 0.808 |
| Physical burden -> overall perceived burden of care | 0.346\*\*\* | 0.25\*\*\* | 0.106 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.2: Relationship between care giver and care receiver – total effects**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Partner | Child/daughter in law/ son in law | Permutation p-Values |
| Intensity of emotional/social support -> overall burden of care | 0.128\*\*\* | 0.117\*\*\* | 0.85 |
| Intensity of household assistance -> overall burden of care | 0.083\*\*\* | 0.077\*\* | 0.915 |
| Intensity of personal care -> overall burden of care | 0.125\*\* | 0.106\*\*\* | 0.767 |
| Intensity of support in organizational matters -> overall burden of care | 0.133\*\*\* | 0.170\*\*\* | 0.485 |
| Intensity of medical care -> overall burden of care | 0.025 | 0.087\*\*\* | 0.223 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.3: Relationship between care giver and care receiver - R2-values**

|  |  |  |
| --- | --- | --- |
|  | R2 values | |
|  | Partner | Child/daughter in law/ son in law |
| overall burden of care | 0.539 | 0.606 |
| emotional burden | 0.22 | 0.224 |
| financial burden | 0.094 | 0.272 |
| physical burden | 0.264 | 0.333 |

**Table A.4: Time required for care - comparison of coefficients**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Coefficients | | Permutation p-Values |
|  | Up to 10 hours/week (n=644) | More than 10 hours/week (n=782) |
| Intensity of emotional/social support -> emotional burden | 0.146\*\*\* | 0.133\*\*\* | 0.833 |
| Intensity of emotional/social support -> financial burden | 0.083 | 0.124\*\*\* | 0.498 |
| Intensity of emotional/social support -> physical burden | 0.103\*\* | 0.055 | 0.414 |
| Intensity of household assistance -> emotional burden | 0.136\*\*\* | 0.072 | 0.345 |
| Intensity of household assistance -> financial burden | 0.186\*\*\* | 0.044 | ***0.021\*\**** |
| Intensity of household assistance -> physical burden | 0.147\*\*\* | 0.013 | ***0.038\*\**** |
| Intensity of personal care -> emotional burden | 0.064 | -0.019 | 0.227 |
| Intensity of personal care -> financial burden | 0.105\*\* | 0.089\*\* | 0.815 |
| Intensity of personal care -> physical burden | 0.198\*\*\* | 0.255\*\*\* | 0.409 |
| Intensity of support in organizational matters -> emotional burden | 0.328\*\*\* | 0.11\*\*\* | ***0.000\*\*\**** |
| Intensity of support in organizational matters -> financial burden | 0.074 | 0.023 | 0.324 |
| Intensity of support in organizational matters -> physical burden | 0.154\*\*\* | 0.048 | 0.054 |
| Intensity of medical care -> emotional burden | 0.018 | 0.054 | 0.547 |
| Intensity of medical care -> financial burden | 0.004 | 0.113\*\*\* | 0.105 |
| Intensity of medical care -> physical burden | 0.057 | 0.096\*\* | 0.525 |
| Emotional burden -> overall perceived burden of care | 0.609\*\*\* | 0.523\*\*\* | 0.066 |
| Financial burden -> overall perceived burden of care | -0.019 | 0.017 | 0.353 |
| Physical burden -> overall perceived burden of care | 0.269\*\*\* | 0.242\*\*\* | 0.594 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.5: Time required for care - total effects**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Up to 10 hours/week | More than 10 hours/week | Permutation p-Values |
| Intensity of emotional/social support -> overall burden of care | 0.115\*\*\* | 0.085\*\*\* | 0.525 |
| Intensity of household assistance -> overall burden of care | 0.119\*\*\* | 0.042 | 0.131 |
| Intensity of personal care -> overall burden of care | 0.091\*\*\* | 0.053 | 0.492 |
| Intensity of support in organizational matters -> overall burden of care | 0.240\*\*\* | 0.070\*\* | ***0.000\*\*\**** |
| Intensity of medical care -> overall burden of care | 0.026 | 0.054 | 0.549 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.6: Time required for care - R2-values**

|  |  |  |
| --- | --- | --- |
|  | R2 values | |
|  | up to 10 hours/week | more than 10 hours/week |
| overall burden of care | 0.619 | 0.482 |
| emotional burden | 0.266 | 0.067 |
| financial burden | 0.109 | 0.078 |
| physical burden | 0.213 | 0.13 |

**Table A.7: Living with care recipient - comparison of coefficients**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Coefficients | | Permutation p-Values |
|  | Living with care recipient – yes (n=779) | Living with care recipient –  no (n=649) |
| Intensity of emotional/social support -> emotional burden | 0.127\*\*\* | 0.184\*\*\* | 0.353 |
| Intensity of emotional/social support -> financial burden | 0.105\*\* | 0.148\*\*\* | 0.487 |
| Intensity of emotional/social support -> physical burden | 0.047 | 0.138\*\*\* | 0.119 |
| Intensity of household assistance -> emotional burden | 0.187\*\*\* | 0.06 | 0.063 |
| Intensity of household assistance -> financial burden | 0.068 | 0.145\*\*\* | 0.222 |
| Intensity of household assistance -> physical burden | 0.123\*\*\* | 0.094\*\* | 0.675 |
| Intensity of personal care -> emotional burden | -0.032 | 0.129\*\*\* | ***0.018\*\**** |
| Intensity of personal care -> financial burden | 0.098\*\* | 0.199\*\*\* | 0.139 |
| Intensity of personal care -> physical burden | 0.336\*\*\* | 0.233\*\*\* | 0.141 |
| Intensity of support in organizational matters -> emotional burden | 0.193\*\*\* | 0.312\*\*\* | 0.063 |
| Intensity of support in organizational matters -> financial burden | 0.08\*\* | 0.028 | 0.303 |
| Intensity of support in organizational matters -> physical burden | 0.087\*\* | 0.130\*\*\* | 0.453 |
| Intensity of medical care -> emotional burden | 0.05 | 0.038 | 0.85 |
| Intensity of medical care -> financial burden | 0.093\*\* | 0.061 | 0.609 |
| Intensity of medical care -> physical burden | 0.065 | 0.123\*\*\* | 0.343 |
| Emotional burden -> overall perceived burden of care | 0.502\*\*\* | 0.636\*\*\* | ***0.004\*\*\**** |
| Financial burden -> overall perceived burden of care | -0.012 | 0.041 | 0.174 |
| Physical burden -> overall perceived burden of care | 0.330\*\*\* | 0.196\*\*\* | ***0.008\*\*\**** |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.8: Living with care recipient - total effects**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Living with care recipient - yes | Living with care recipient -  no | Permutation p-Values |
| Intensity of emotional/social support -> overall burden of care | 0.078\*\* | 0.150\*\*\* | 0.13 |
| Intensity of household assistance -> overall burden of care | 0.134\*\*\* | 0.063 | 0.173 |
| Intensity of personal care -> overall burden of care | 0.094\*\*\* | 0.136\*\*\* | 0.424 |
| Intensity of support in organizational matters -> overall burden of care | 0.125\*\*\* | 0.225\*\*\* | 0.037\*\* |
| Intensity of medical care -> overall burden of care | 0.045 | 0.051 | 0.893 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.9: Living with care recipient - R2-values**

|  |  |  |
| --- | --- | --- |
|  | R2 values | |
|  | Living with care recipient - yes | Living with care recipient -  no |
| overall burden of care | 0.535 | 0.645 |
| emotional burden | 0.169 | 0.296 |
| financial burden | 0.107 | 0.192 |
| physical burden | 0.272 | 0.275 |

**Table A.10: Gender of the care receiver - comparison of coefficients**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Coefficients | | Permutation p-Values |
|  | male (n=633) | Female (n=791) |
| Intensity of emotional/social support -> emotional burden | 0.171\*\*\* | 0.135\*\*\* | 0.572 |
| Intensity of emotional/social support -> financial burden | 0.146\*\*\* | 0.130\*\*\* | 0.792 |
| Intensity of emotional/social support -> physical burden | 0.098\*\* | 0.095\*\* | 0.954 |
| Intensity of household assistance -> emotional burden | 0.166\*\*\* | 0.136\*\*\* | 0.675 |
| Intensity of household assistance -> financial burden | 0.043 | 0.229\*\*\* | ***0.003\*\*\**** |
| Intensity of household assistance -> physical burden | 0.086 | 0.142\*\*\* | 0.418 |
| Intensity of personal care -> emotional burden | 0.054 | 0.089 | 0.616 |
| Intensity of personal care -> financial burden | 0.153\*\*\* | 0.16\*\*\* | 0.916 |
| Intensity of personal care -> physical burden | 0.311\*\*\* | 0.316\*\*\* | 0.937 |
| Intensity of support in organizational matters -> emotional burden | 0.233\*\*\* | 0.272\*\*\* | 0.54 |
| Intensity of support in organizational matters -> financial burden | 0.125\*\*\* | -0.007 | ***0.010\*\*\**** |
| Intensity of support in organizational matters -> physical burden | 0.125\*\*\* | 0.09\*\* | 0.511 |
| Intensity of medical care -> emotional burden | 0.051 | 0.05 | 0.989 |
| Intensity of medical care -> financial burden | 0.077 | 0.103\*\* | 0.687 |
| Intensity of medical care -> physical burden | 0.102\*\* | 0.092\*\* | 0.86 |
| Emotional burden -> overall perceived burden of care | 0.584\*\*\* | 0.556\*\*\* | 0.549 |
| Financial burden -> overall perceived burden of care | 0.006 | 0.021 | 0.708 |
| Physical burden -> overall perceived burden of care | 0.264\*\*\* | 0.287\*\*\* | 0.654 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.11: Gender of the care receiver - total effects**

|  |  |  |  |
| --- | --- | --- | --- |
|  | male | female | Permutation p-Values |
| Intensity of emotional/social support -> overall burden of care | 0.127\*\*\* | 0.105\*\*\* | 0.653 |
| Intensity of household assistance -> overall burden of care | 0.120\*\*\* | 0.121\*\*\* | 0.982 |
| Intensity of personal care -> overall burden of care | 0.115\*\*\* | 0.143\*\*\* | 0.596 |
| Intensity of support in organizational matters -> overall burden of care | 0.170\*\*\* | 0.177\*\*\* | 0.89 |
| Intensity of medical care -> overall burden of care | 0.057 | 0.056 | 0.983 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.12: Gender of the care receiver - R2-values**

|  |  |  |
| --- | --- | --- |
|  | R2 values | |
|  | male | female |
| overall burden of care | 0.608 | 0.615 |
| emotional burden | 0.274 | 0.286 |
| financial burden | 0.170 | 0.254 |
| physical burden | 0.318 | 0.351 |

**Table A.13: Gender of the care giver - comparison of coefficients**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Coefficients | | Permutation p-Values |
|  | male (n=267) | female (n=1161) |
| Intensity of emotional/social support -> emotional burden | 0.145 | 0.143\*\*\* | 0.981 |
| Intensity of emotional/social support -> financial burden | 0.038 | 0.136\*\*\* | 0.211 |
| Intensity of emotional/social support -> physical burden | 0.049 | 0.096\*\*\* | 0.531 |
| Intensity of household assistance -> emotional burden | 0.221\*\* | 0.145\*\*\* | 0.373 |
| Intensity of household assistance -> financial burden | 0.252\*\*\* | 0.124\*\*\* | 0.116 |
| Intensity of household assistance -> physical burden | 0.200\*\* | 0.110\*\*\* | 0.274 |
| Intensity of personal care -> emotional burden | 0.000 | 0.092\*\* | 0.309 |
| Intensity of personal care -> financial burden | 0.207 | 0.171\*\*\* | 0.697 |
| Intensity of personal care -> physical burden | 0.381\*\*\* | 0.302\*\*\* | 0.369 |
| Intensity of support in organizational matters -> emotional burden | 0.233\*\*\* | 0.246\*\*\* | 0.870 |
| Intensity of support in organizational matters -> financial burden | -0.042 | 0.066\*\* | 0.100 |
| Intensity of support in organizational matters -> physical burden | 0.008 | 0.117\*\*\* | 0.126 |
| Intensity of medical care -> emotional burden | 0.153\*\* | 0.031 | 0.110 |
| Intensity of medical care -> financial burden | 0.108 | 0.094\*\*\* | 0.871 |
| Intensity of medical care -> physical burden | 0.107 | 0.1\*\*\* | 0.934 |
| Emotional burden -> overall perceived burden of care | 0.509\*\*\* | 0.581\*\*\* | 0.236 |
| Financial burden -> overall perceived burden of care | 0.079 | -0.009 | 0.082 |
| Physical burden -> overall perceived burden of care | 0.354\*\*\* | 0.265\*\*\* | 0.176 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.14: Gender of the care giver - total effects**

|  |  |  |  |
| --- | --- | --- | --- |
|  | male | female | Permutation p-Values |
| Intensity of emotional/social support -> overall burden of care | 0.094 | 0.107\*\*\* | 0.829 |
| Intensity of household assistance -> overall burden of care | 0.203\*\*\* | 0.112\*\*\* | 0.161 |
| Intensity of personal care -> overall burden of care | 0.152\*\* | 0.132\*\*\* | 0.775 |
| Intensity of support in organizational matters -> overall burden of care | 0.118\*\* | 0.173\*\*\* | 0.368 |
| Intensity of medical care -> overall burden of care | 0.124\*\* | 0.044 | 0.162 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.15: Gender of the care giver - R2-values**

|  |  |  |
| --- | --- | --- |
|  | R2 values | |
|  | male | female |
| overall burden of care | 0.697 | 0.595 |
| emotional burden | 0.376 | 0.255 |
| financial burden | 0.251 | 0.206 |
| physical burden | 0.428 | 0.320 |

**Table A.16: Income - comparison of coefficients**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Coefficients | | Permutation p-Values |
|  | Up to 3000 Euro (n=922) | More than 3000  Euro (404) |
| Intensity of emotional/social support -> emotional burden | 0.112\*\*\* | 0.167\*\*\* | 0.432 |
| Intensity of emotional/social support -> financial burden | 0.144\*\*\* | 0.031 | 0.103 |
| Intensity of emotional/social support -> physical burden | 0.038 | 0.158\*\*\* | 0.059 |
| Intensity of household assistance -> emotional burden | 0.233\*\*\* | 0.015 | ***0.006\*\*\**** |
| Intensity of household assistance -> financial burden | 0.09\*\* | 0.181\*\*\* | 0.2 |
| Intensity of household assistance -> physical burden | 0.137\*\*\* | 0.08 | 0.448 |
| Intensity of personal care -> emotional burden | 0.04 | 0.139\*\* | 0.191 |
| Intensity of personal care -> financial burden | 0.181\*\*\* | 0.180\*\*\* | 0.984 |
| Intensity of personal care -> physical burden | 0.266\*\*\* | 0.362\*\*\* | 0.219 |
| Intensity of support in organizational matters -> emotional burden | 0.247\*\*\* | 0.286\*\*\* | 0.591 |
| Intensity of support in organizational matters -> financial burden | 0.072\*\* | 0.054 | 0.759 |
| Intensity of support in organizational matters -> physical burden | 0.159\*\*\* | 0.042 | 0.064 |
| Intensity of medical care -> emotional burden | 0.048 | 0.055 | 0.921 |
| Intensity of medical care -> financial burden | 0.094\*\* | 0.068 | 0.715 |
| Intensity of medical care -> physical burden | 0.094\*\* | 0.108 | 0.83 |
| Emotional burden -> overall perceived burden of care | 0.592\*\*\* | 0.539\*\*\* | 0.316 |
| Financial burden -> overall perceived burden of care | 0.009 | 0.02 | 0.796 |
| Physical burden -> overall perceived burden of care | 0.234\*\*\* | 0.344\*\*\* | 0.057 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.17: Income - total effects**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Up to 3000 Euro | More than 3000  Euro | Permutation p-Values |
| Intensity of emotional/social support -> overall burden of care | 0.077\*\*\* | 0.145\*\*\* | 0.192 |
| Intensity of household assistance -> overall burden of care | 0.170\*\*\* | 0.039 | ***0.024\*\**** |
| Intensity of personal care -> overall burden of care | 0.088\*\*\* | 0.203\*\*\* | 0.052 |
| Intensity of support in organizational matters -> overall burden of care | 0.184\*\*\* | 0.170\*\*\* | 0.796 |
| Intensity of medical care -> overall burden of care | 0.051 | 0.068 | 0.74 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.18: Income - R2-values**

|  |  |  |
| --- | --- | --- |
|  | R2 values | |
|  | Up to 3000 Euro | More than 3000  Euro |
| overall burden of care | 0.587 | 0.664 |
| emotional burden | 0.293 | 0.27 |
| financial burden | 0.204 | 0.169 |
| physical burden | 0.301 | 0.376 |

**Table A.19: Age of the care receiver - comparison of coefficients**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Coefficients | | Permutation p-Values |
|  | Up to 77 years old (n=733) | More than 77  years old (n=649) |
| Intensity of emotional/social support -> emotional burden | 0.087 | 0.205\*\*\* | 0.055 |
| Intensity of emotional/social support -> financial burden | 0.143\*\*\* | 0.091\*\* | 0.401 |
| Intensity of emotional/social support -> physical burden | 0.05 | 0.131\*\*\* | 0.169 |
| Intensity of household assistance -> emotional burden | 0.098\*\* | 0.163\*\*\* | 0.336 |
| Intensity of household assistance -> financial burden | 0.104\*\* | 0.141\*\*\* | 0.551 |
| Intensity of household assistance -> physical burden | -0.005 | 0.218\*\*\* | ***0.001\*\*\**** |
| Intensity of personal care -> emotional burden | 0.079 | 0.074 | 0.944 |
| Intensity of personal care -> financial burden | 0.105\*\* | 0.206\*\*\* | 0.14 |
| Intensity of personal care -> physical burden | 0.347\*\*\* | 0.265\*\*\* | 0.236 |
| Intensity of support in organizational matters -> emotional burden | 0.289\*\*\* | 0.237\*\*\* | 0.411 |
| Intensity of support in organizational matters -> financial burden | 0.074 | 0.044 | 0.553 |
| Intensity of support in organizational matters -> physical burden | 0.162\*\*\* | 0.06 | 0.062 |
| Intensity of medical care -> emotional burden | 0.034 | 0.064 | 0.617 |
| Intensity of medical care -> financial burden | 0.109\*\* | 0.085 | 0.71 |
| Intensity of medical care -> physical burden | 0.105\*\* | 0.093 | 0.845 |
| Emotional burden -> overall perceived burden of care | 0.481\*\*\* | 0.645\*\*\* | ***0.000\*\*\**** |
| Financial burden -> overall perceived burden of care | -0.008 | 0.029 | 0.333 |
| Physical burden -> overall perceived burden of care | 0.347\*\*\* | 0.214\*\*\* | ***0.009\*\*\**** |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.20: Age of the care receiver - total effects**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Up to 77 years old | More than 77  years old | Permutation p-Values |
| Intensity of emotional/social support -> overall burden of care | 0.058 | 0.163\*\*\* | ***0.025\*\**** |
| Intensity of household assistance -> overall burden of care | 0.044 | 0.156\*\*\* | ***0.029\*\**** |
| Intensity of personal care -> overall burden of care | 0.158\*\*\* | 0.110\*\*\* | 0.372 |
| Intensity of support in organizational matters -> overall burden of care | 0.194\*\*\* | 0.167\*\*\* | 0.567 |
| Intensity of medical care -> overall burden of care | 0.052 | 0.064\*\* | 0.8 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.21: Age of the care receiver - R2-values**

|  |  |  |
| --- | --- | --- |
|  | R2 values | |
|  | Up to 77 years old | More than 77  years old |
| overall burden of care | 0.550 | 0.665 |
| emotional burden | 0.215 | 0.331 |
| financial burden | 0.165 | 0.202 |
| physical burden | 0.288 | 0.368 |

**Table A.15: Age of the care giver - comparison of coefficients**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Coefficients | | Permutation p-Values |
|  | Up to 54 years old (n=715) | 55 years  and older (n=714) |
| Intensity of emotional/social support -> emotional burden | 0.110\*\* | 0.188\*\*\* | 0.218 |
| Intensity of emotional/social support -> financial burden | 0.121\*\*\* | 0.127\*\*\* | 0.924 |
| Intensity of emotional/social support -> physical burden | 0.091\*\* | 0.094\*\* | 0.95 |
| Intensity of household assistance -> emotional burden | 0.151\*\*\* | 0.160\*\*\* | 0.899 |
| Intensity of household assistance -> financial burden | 0.252\*\*\* | 0.077 | ***0.003\*\*\**** |
| Intensity of household assistance -> physical burden | 0.118\*\* | 0.137\*\*\* | 0.776 |
| Intensity of personal care -> emotional burden | 0.06 | 0.083 | 0.741 |
| Intensity of personal care -> financial burden | 0.147\*\*\* | 0.231\*\*\* | 0.215 |
| Intensity of personal care -> physical burden | 0.300\*\*\* | 0.323\*\*\* | 0.741 |
| Intensity of support in organizational matters -> emotional burden | 0.295\*\*\* | 0.221\*\*\* | 0.237 |
| Intensity of support in organizational matters -> financial burden | 0.029 | 0.053 | 0.619 |
| Intensity of support in organizational matters -> physical burden | 0.108\*\*\* | 0.100\*\*\* | 0.884 |
| Intensity of medical care -> emotional burden | 0.038 | 0.063 | 0.664 |
| Intensity of medical care -> financial burden | 0.076 | 0.088 | 0.85 |
| Intensity of medical care -> physical burden | 0.122\*\*\* | 0.075 | 0.435 |
| Emotional burden -> overall perceived burden of care | 0.580\*\*\* | 0.548\*\*\* | 0.495 |
| Financial burden -> overall perceived burden of care | 0.022 | 0.025 | 0.944 |
| Physical burden -> overall perceived burden of care | 0.261\*\*\* | 0.296\*\*\* | 0.48 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.16: Age of the care giver - total effects**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Up to 54 years old | 55 years  and older | Permutation p-Values |
| Intensity of emotional/social support -> overall burden of care | 0,090\*\*\* | 0,134\*\*\* | 0,347 |
| Intensity of household assistance -> overall burden of care | 0,124\*\*\* | 0,13\*\*\* | 0,903 |
| Intensity of personal care -> overall burden of care | 0,116\*\*\* | 0,147\*\*\* | 0,553 |
| Intensity of support in organizational matters -> overall burden of care | 0,2000\*\*\* | 0,152\*\*\* | 0,312 |
| Intensity of medical care -> overall burden of care | 0,055 | 0,059 | 0,935 |

Note: \*\*\* p≤.01; \*\* p≤.05; two-tailed tests

**Table A.21: Age of the care giver - R2-values**

|  |  |  |
| --- | --- | --- |
|  | R2 values | |
|  | Up to 54 years old | 55 years  and older |
| overall burden of care | 0.608 | 0.626 |
| emotional burden | 0.27 | 0.305 |
| financial burden | 0.254 | 0.210 |
| physical burden | 0.343 | 0.339 |

1. In our survey, we also surveyed other potential relationships. For example, neighbors might care for each other. However, due to low number of observations for these “other” relationships, we focus on the two groups presented above. [↑](#footnote-ref-1)