**Supplementary material**

**SUPPLEMENTARY MATERIAL 1.** *Unweighted missingness.*

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|  | **Missingness (%)** |
| **Dependent variables** |  |
| Positive affect | 4.4 |
| Negative affect | 4.1 |
| **Independent variables** |  |
| ADL assistance | 0.0 |
| IADL assistance | 0.0 |
| Emotional support | 1.4 |
| **Mediators** |  |
| PAC | 9.6 |
| Caregiving burden | 9.3 |
| **Moderator** |  |
|  Unmet healthcare needs | 0.0 |
| **Control variables** |  |
|  **Caregiver** |  |
| Age | 0.3 |
| Sex | 0.2 |
|  Race | 0.7 |
| Marital status  | 0.7 |
| Education | 0.6 |
|  Household income | 9.3 |
| Co-reside with care recipient | 4.6 |
|  Type of relationship | 0.1 |
|  Quality of relationship | 1.5 |
| Self-rated health | 2.1 |
| **Care recipient** |  |
| Age | 0.0 |
| ADL dependence | 0.0 |
| IADL dependence | 0.0 |
| Number of diseases | 0.0 |
| Dementia status | 0.0 |