Supplemental Table S1

*Correlations among study variables*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. |
| 1. Age | -- |  |  |  |  |  |  |  |  |  |
| 2. Sex | .01 | -- |  |  |  |  |  |  |  |  |
| 3. Race (Black) | -.11\*\* | .06\*\* | -- |  |  |  |  |  |  |  |
| 4. Race (Otherwise identified) | -.09\*\* | .01 | -.09\*\* | -- |  |  |  |  |  |  |
| 5. Hispanic | -.10\*\* | .00 | -.11\*\* | .34\*\* | -- |  |  |  |  |  |
| 6. Education | -.08\*\* | -.07\*\* | -.08\*\* | -.12\*\* | -.36\*\* | -- |  |  |  |  |
| 7. Informant age | .20\*\* | -.12\*\* | -.15\*\* | -.03 | -.07\*\* | .08\*\* | -- |  |  |  |
| 8. Informant gender | .10\*\* | -.35\*\* | .03 | -.01 | .02 | -.04 | -.13\*\* | -- |  |  |
| 9. Informant education | .02 | .05\* | -.04\* | -.08\*\* | -.31\*\* | .48\*\* | -.11\*\* | -.01 | -- |  |
| 10. Spouse | -.19\*\* | -.32\*\* | -.16\*\* | -.01 | .01 | .08\*\* | .55\*\* | -.19\*\* | -.08\*\* | -- |
| 11. Years known | -.02 | -.21\*\* | .12\*\* | .00 | .01 | .05\*\* | .60\*\* | -.14\*\* | -.08\*\* | .68\*\* |
| 12. Purpose in life | -.12\*\* | -.02 | -.08\*\* | -.02 | -.07\*\* | .22\*\* | .03 | -.03 | .15\*\* | .08\*\* |
| 13. Episodic memory | -.36\*\* | .15\*\* | -.10\*\* | -.06\*\* | -.14\*\* | .35\*\* | -.03 | -.10\*\* | .22\*\* | .05\*\* |
| 14. Speed-attention | -.40\*\* | .02 | -.21\*\* | -.05\*\* | -.16\*\* | .44\*\* | .01 | -.05\*\* | .23\*\* | .13\*\* |
| 15. Visuospatial ability | -.29\*\* | -.06\*\* | -.25\*\* | -.06\*\* | -.13\*\* | .43\*\* | .06\*\* | -.03 | .23\*\* | .16\*\* |
| 16. Language | -.29\*\* | -.02 | -.16\*\* | -.04\* | -.06\*\* | .32\*\* | -.01 | -.04 | .17\*\* | .10\*\* |
| 17. Numeric reasoning | -.18\*\* | -.15\*\* | -.24\*\* | -.10\*\* | -.19\*\* | .43\*\* | .07\*\* | -.02 | .24\*\* | .16\*\* |
| 18. Global cognitive function | -.26\*\* | -.08\*\* | -.15\*\* | -.06\*\* | -.10\*\* | .36\*\* | .00 | .05\*\* | .18\*\* | .05\* |
| 19. Informant cognition | .27\*\* | -.04\* | -.04\* | -.01 | .00 | -.12\*\* | -.02 | .09\*\* | -.02 | -.03 |
| 20. Informant positive affect | -.08\*\* | .05\* | .05\* | -.07\*\* | -.09\*\* | .18\*\* | -.04 | .04\* | .16\*\* | -.05\* |
| 21. Informant negative affect | .10\*\* | .00 | -.03 | .05\*\* | .08\*\* | -.14\*\* | -.02 | -.01 | -.12\*\* | -.03 |
| 22. Informant passive activities | .19\*\* | -.14\*\* | .12\*\* | -.02 | -.03 | -.11\*\* | -.01 | .08\*\* | -.06\*\* | .00 |
| 23. Informant cognitive activities | -.20\*\* | .01 | -.07\*\* | -.06\*\* | -.17\*\* | .37\*\* | .02 | -.06\*\* | .23\*\* | .07\*\* |
| 24. Informant outside activities | -.20\*\* | -.05\* | -.03 | .01 | .01 | .22\*\* | .00 | -.04 | .13\*\* | .01 |
| 25. Depressive symptoms | -.05\* | .12\*\* | .06\*\* | .04\* | .14\*\* | -.20\*\* | -.12\*\* | .01 | -.14\*\* | -.13\*\* |
| 26. Depression status | -.05\*\* | .10\*\* | .04 | .02 | .10\*\* | -.14\*\* | -.09\*\* | .01 | -.12\*\* | -.10\*\* |
| 27. Cognitive status | .19\*\* | -.04\* | .12\*\* | .06\*\* | .08\*\* | -.31\*\* | .01 | .02 | -.14\*\* | -.02 |
| 28. Life satisfaction | .07\*\* | -.02 | -.10\*\* | -.01 | .00 | .09\*\* | .12\*\* | -.02 | .09\*\* | .13\*\* |
| 29. Optimism | .01 | .03 | .05\*\* | .00 | .01 | .07\*\* | .00 | .01 | .05\*\* | .01 |
| 30. Positive affect | -.06\*\* | .01 | .05\*\* | -.04 | -.10\*\* | .21\*\* | .04\* | -.03 | .16\*\* | .08\*\* |
| 31. Mastery | -.08\*\* | -.05\*\* | -.01 | -.03 | -.01 | .08\*\* | .03 | .01 | .05\* | .06\*\* |

*Supplemental Table S1 continued*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 11. | 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. |
| 11. Years known | -- |  |  |  |  |  |  |  |  |  |
| 12. Purpose in life | .06\*\* | -- |  |  |  |  |  |  |  |  |
| 13. Episodic memory | .02 | .20\*\* | -- |  |  |  |  |  |  |  |
| 14. Speed-attention | .05\* | .24\*\* | .58\*\* | -- |  |  |  |  |  |  |
| 15. Visuospatial ability | .10\*\* | .21\*\* | .54\*\* | .65\*\* | -- |  |  |  |  |  |
| 16. Language | .04\* | .18\*\* | .54\*\* | .54\*\* | .50\*\* | -- |  |  |  |  |
| 17. Numeric reasoning | .10\*\* | .17\*\* | .38\*\* | .52\*\* | .52\*\* | .38\*\* | -- |  |  |  |
| 18. Global cognitive function | .03 | .21\*\* | .62\*\* | .65\*\* | .58\*\* | .45\*\* | .41\*\* | -- |  |  |
| 19. Informant cognition | -.03 | -.23\*\* | -.42\*\* | -.40\*\* | -.34\*\* | -.31\*\* | -.16\*\* | -.44\*\* | -- |  |
| 20. Informant positive affect | -.05\* | .26\*\* | .25\*\* | .25\*\* | .18\*\* | .19\*\* | .11\*\* | .24\*\* | -.46\*\* | -- |
| 21. Informant negative affect | -.04 | -.20\*\* | -.28\*\* | -.27\*\* | -.23\*\* | -.19\*\* | -.11\*\* | -.30\*\* | .55\*\* | -.52\*\* |
| 22. Informant passive activities | .00 | -.24\*\* | -.32\*\* | -.30\*\* | -.22\*\* | -.24\*\* | -.17\*\* | -.23\*\* | .35\*\* | -.30\*\* |
| 23. Informant cognitive activities | .02 | .17\*\* | .37\*\* | .44\*\* | .40\*\* | .32\*\* | .31\*\* | .37\*\* | -.26\*\* | .23\*\* |
| 24. Informant outside activities | .01 | .25\*\* | .22\*\* | .33\*\* | .25\*\* | .25\*\* | .22\*\* | .24\*\* | -.32\*\* | .30\*\* |
| 25. Depressive symptoms | -.13\*\* | -.35\*\* | -.11\*\* | -.17\*\* | -.16\*\* | -.12\*\* | -.18\*\* | -.12\*\* | .18\*\* | -.26\*\* |
| 26. Depression status | -.10\*\* | -.30\*\* | -.08\*\* | -.12\*\* | -.12\*\* | -.09\*\* | -.13\*\* | -.08\*\* | .14\*\* | -.23\*\* |
| 27. Cognitive status | -.02 | -.16\*\* | -.46\*\* | -.52\*\* | -.46\*\* | -.34\*\* | -.27\*\* | -.79\*\* | .34\*\* | -.20\*\* |
| 28. Life satisfaction | .13\*\* | .33\*\* | .08\*\* | .13\*\* | .14\*\* | .10\*\* | .14\*\* | .08\*\* | -.09\*\* | .19\*\* |
| 29. Optimism | .02 | .35\*\* | .07\*\* | .08\*\* | .06\*\* | .08\*\* | .05\* | .06\* | -.08\*\* | .13\*\* |
| 30. Positive affect | .06\*\* | .57\*\* | .18\*\* | .24\*\* | .19\*\* | .18\*\* | .15\*\* | .18\*\* | -.19\*\* | .28\*\* |
| 31. Mastery | .03 | .38\*\* | .10\*\* | .18\*\* | .15\*\* | .11\*\* | .10\*\* | .12\*\* | -.16\*\* | .17\*\* |

*Supplemental Table S1 continued*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 21. | 22. | 23. | 24. | 25. | 26. | 27. | 28. | 29. | 30. | 31. |
| 21. Informant negative affect | -- |  |  |  |  |  |  |  |  |  |  |
| 22. Informant passive activities | .23\*\* | -- |  |  |  |  |  |  |  |  |  |
| 23. Informant cognitive activities | -.16\*\* | -.18\*\* | -- |  |  |  |  |  |  |  |  |
| 24. Informant outside activities | -.20\*\* | -.40\*\* | .25\*\* | -- |  |  |  |  |  |  |  |
| 25. Depressive symptoms | .24\*\* | .18\*\* | -.12\*\* | -.22\*\* | -- |  |  |  |  |  |  |
| 26. Depression status | .21\*\* | .15\*\* | -.08\*\* | -.18\*\* | .86\*\* | -- |  |  |  |  |  |
| 27. Cognitive status | .25\*\* | .17\*\* | -.30\*\* | -.20\*\* | .08\*\* | .05\* | -- |  |  |  |  |
| 28. Life satisfaction | -.16\*\* | -.14\*\* | .08\*\* | .17\*\* | -.38\*\* | -.35\*\* | -.05\*\* | -- |  |  |  |
| 29. Optimism | -.10\*\* | -.08\*\* | .04\* | .13\*\* | -.26\*\* | -.23\*\* | -.03 | .38\*\* | -- |  |  |
| 30. Positive affect | -.23\*\* | -.21\*\* | .16\*\* | .25\*\* | -.41\*\* | -.35\*\* | -.14\*\* | .42\*\* | .40\*\* | -- |  |
| 31. Mastery | -.14\*\* | -.14\*\* | .08\*\* | .17\*\* | -.26\*\* | -.23\*\* | -.08\*\* | .35\*\* | .34\*\* | .42\*\* | -- |

Supplemental Table S2

*Associations Between Purpose in Life and Memory Tasks*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Predictor |  | β | p | β | p | β | p |
|  |  | CERAD Word List Learning and Recall Task |
|  |  | Immediate | Delayed | Recognition |
| Age |  | -.22 | <.001 | -.30 | <.001 | -.23 | <.001 |
| Sex |  | .23 | <.001 | .25 | <.001 | .10 | <.001 |
| Race (Black) |  | -.05 | .005 | -.12 | <.001 | -.07 | <.001 |
| Race (otherwise ident) |  | -.03 | .090 | -.01 | .502 | .01 | .459 |
| Ethnicity |  | -.05 | .014 | .00 | .925 | -.05 | .027 |
| Education |  | .19 | <.001 | .20 | <.001 | .07 | <.001 |
| Income |  | .06 | .004 | .07 | <.001 | .07 | <.001 |
| Purpose in life |  | .09 | <.001 | .09 | <.001 | .07 | <.001 |
|  Sample size |  | 2811 |  | 2798 |  |  |  |
|  |  | Wechsler Memory Scale Logical Memory I |
|  |  | Immediate | Delayed | Recognition |
| Age |  | -.27 | <.001 | -.29 | <.001 | -.23 | <.001 |
| Sex |  | .13 | <.001 | .14 | <.001 | .10 | <.001 |
| Race (Black) |  | -.10 | <.001 | -.11 | <.001 | -.07 | <.001 |
| Race (otherwise ident) |  | -.04 | .043 | -.04 | .042 | -.06 | .002 |
| Ethnicity |  | -.03 | .157 | -.02 | .286 | -.08 | <.001 |
| Education |  | .23 | <.001 | .23 | <.001 | .18 | <.001 |
| Income |  | .12 | <.001 | .12 | <.001 | .08 | <.001 |
| Purpose in life |  | .05 | .003 | .05 | .004 | .03 | .083 |
|  Sample size |  | 2784 |  | 2755 |  |  |  |
|  |  |  Brave Man |
|  |  | Immediate | Delayed |  |  |
| Age |  | -.18 | <.001 | -.21 | <.001 |  |  |
| Sex |  | .12 | <.001 | .11 | <.001 |  |  |
| Race (Black) |  | -.08 | <.001 | -.11 | <.001 |  |  |
| Race (otherwise ident) |  | -.03 | .101 | -.04 | .056 |  |  |
| Ethnicity |  | -.08 | <.001 | -.04 | .050 |  |  |
| Education |  | .16 | <.001 | .12 | <.001 |  |  |
| Income |  | .08 | <.001 | .11 | <.001 |  |  |
| Purpose in life |  | .08 | <.001 | .07 | <.001 |  |  |
|  Sample size |  | 2802 |  | 2763 |  |  |  |

*Note*. Coefficients are standardized beta coefficients from linear regression.

Supplemental Table S3

*Associations Between Purpose in Life and Speed-Attention Tasks*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Predictor |  | Letter Cancellation | Backward Count | Symbol Digit | Trails A | Trails B |
|  |  | β | p | β | p | β | p | β | p | β | p |
| Age |  | -.32 | <.001 | -.25 | <.001 | -.40 | <.001 | .30 | <.001 | .32 | <.001 |
| Sex |  | .15 | <.001 | -.04 | .028 | .13 | <.001 | -.05 | .004 | -.04 | .021 |
| Race (Black) |  | -.04 | .020 | -.24 | <.001 | -.23 | <.001 | .20 | <.001 | .24 | <.001 |
| Race (otherwise ident) |  | .01 | .646 | -.06 | .001 | -.05 | .001 | .02 | .154 | .05 | .008 |
| Ethnicity |  | -.01 | .582 | -.08 | <.001 | -.08 | <.001 | .08 | <.001 | .06 | .001 |
| Education |  | .19 | <.001 | .26 | <.001 | .32 | <.001 | -.22 | <.001 | -.20 | <.001 |
| Income |  | .08 | <.001 | .08 | <.001 | .11 | <.001 | -.08 | <.001 | -.07 | <.001 |
| Purpose in life |  | .11 | <.001 | .08 | <.001 | .11 | <.001 | -.08 | <.001 | -.12 | <.001 |
|  Sample size |  | 2714 |  | 2781 |  | 2711 |  | 2731 |  | 2459 |  |

*Note*. Coefficients are standardized beta coefficients from linear regression.

Supplemental Table S4

*Associations Between Purpose in Life and Visuospatial Tasks*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Predictor |  | Praxis-Immediate | Praxis-Delayed | Ravens Matrices |
|  |  | β | p | β | P | β | p |
| Age |  | -.15 | <.001 | -.28 | <.001 | -.27 | <.001 |
| Sex |  | -.02 | .243 | .02 | .365 | -.02 | .127 |
| Race (Black) |  | -.20 | <.001 | -.13 | <.001 | -.30 | <.001 |
| Race (otherwise ident) |  | -.04 | .035 | -.03 | .122 | -.06 | <.001 |
| Ethnicity |  | -.02 | .308 | .00 | .870 | -.05 | .004 |
| Education |  | .27 | <.001 | .21 | <.001 | .32 | <.001 |
| Income |  | .04 | .035 | .08 | <.001 | .08 | <.001 |
| Purpose in life |  | .08 | <.001 | .09 | <.001 | .09 | <.001 |
|  Sample size |  | 2790 |  | 2786 |  | 2786 |  |

*Note*. Coefficients are standardized beta coefficients from linear regression.

Supplemental Table S5

*Associations Between Purpose in Life and Individual Informant-rated Cognitive Decline Measures*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Predictor |  | IQ Code | Blessed Part 1 | 1066 | CSID |
|  |  | β | p | β | p | β | p | β | p |
| Age |  | .25 | <.001 | .24 | <.001 | .27 | <.001 | .20 | <.001 |
| Sex |  | .01 | .718 | -.01 | .713 | -.04 | .090 | -.04 | .098 |
| Race (Black) |  | -.10 | <.001 | .00 | .877 | -.01 | .735 | .04 | .034 |
| Race (otherwise ident) |  | -.04 | .045 | .03 | .171 | -.01 | .565 | .03 | .109 |
| Ethnicity |  | -.03 | .158 | -.03 | .231 | .01 | .721 | .01 | .774 |
| Education |  | -.04 | .114 | -.04 | .062 | -.03 | .228 | -.06 | <.001 |
| Income |  | -.02 | .255 | -.11 | <.001 | -.10 | <.001 | -.11 | <.001 |
| Informant age |  | -.08 | .001 | -.08 | .001 | -.09 | <.001 | -.10 | <.001 |
| Informant gender |  | .05 | .021 | .02 | .306 | .02 | .427 | .07 | <.001 |
| Informant education |  | .09 | <.001 | .04 | .109 | .06 | .011 | -.03 | .186 |
| Spouse |  | .10 | <.001 | .11 | <.001 | .08 | .010 | .20 | <.001 |
| Years known |  | .00 | .932 | -.03 | .223 | -.04 | .208 | -.03 | .213 |
| Purpose in life |  | -.14 | <.001 | -.15 | <.001 | -.17 | <.001 | -.14 | <.001 |
|  Sample size |  | 2562 |  | 2503 |  | 2520 |  | 2563 |  |

*Note*. Coefficients are standardized beta coefficients from linear regression.

Supplemental Table S6

*Associations Between Purpose in Life and Individual Informant-rated Affect Items*

|  |  |  |  |
| --- | --- | --- | --- |
| Predictor |  | Positive Affect | Negative Affect |
|  |  | Happy | Engaged | Alert | Interested | Confused | Withdrawn |
|  |  | β | p | β | p | β | p | β | p | β | p | β | p |
| Age |  | -.04 | 111 | -.06 | .003 | -.05 | .016 | -.05 | .023 | .15 | <.001 | .03 | .223 |
| Sex |  | .06 | .006 | .08 | <.001 | .06 | .011 | .07 | .003 | .02 | .274 | -.08 | <.001 |
| Race (Black) |  | .05 | .010 | -.01 | .483 | .04 | .038 | .04 | .048 | .02 | .381 | -.05 | .010 |
| Race (otherwise ident) |  | -.03 | .231 | -.05 | .013 | -.04 | .045 | -.03 | .158 | .02 | .318 | .04 | .070 |
| Ethnicity |  | .01 | .698 | .04 | .080 | -.06 | .013 | -.04 | .124 | -.01 | .660 | .05 | .022 |
| Education |  | .03 | .287 | .08 | <.001 | .04 | .127 | .07 | .003 | -.04 | .069 | -.02 | .406 |
| Income |  | .07 | .001 | .06 | .004 | .07 | .002 | .06 | .005 | -.07 | .004 | -.09 | <.001 |
| Informant age |  | .03 | .205 | .00 | .894 | -.01 | .770 | .02 | .468 | -.06 | .019 | .01 | .671 |
| Informant gender |  | .08 | <.001 | .06 | .006 | .07 | .001 | .05 | .011 | -.02 | .270 | -.04 | .047 |
| Informant education |  | -.03 | .216 | .10 | <.001 | .06 | .004 | .04 | .115 | -.05 | .033 | -.02 | .335 |
| Spouse |  | .02 | .545 | -.06 | .061 | -.07 | .026 | -.06 | .059 | .09 | .005 | .00 | .933 |
| Years known |  | -.02 | .393 | -.01 | .831 | -.01 | .781 | .00 | .918 | -.05 | .069 | -.04 | .196 |
| Purpose in life |  | .18 | <.001 | .16 | <.001 | .19 | <.001 | .18 | <.001 | -.12 | <.001 | -.14 | <.001 |
|  Sample size |  | 2560 |  | 2532 |  | 2562 |  | 2569 |  | 2562 |  | 2557 |  |

*Note*. Coefficients are standardized beta coefficients from linear regression.

Supplemental Table S7

*Associations Between Purpose in Life and Individual Informant-rated Frequency of Activities at Home*

|  |  |  |  |
| --- | --- | --- | --- |
| Predictor |  | Passive Activities | Cognitive Activities |
|  |  | Watching TV | Napping | Chores1 | Reading | Computer/Internet |
|  |  | β | p | β | p | β | p | β | p | β | p |
| Age |  | .06 | .007 | .16 | <.001 | -.18 | <.001 | .02 | .250 | -.30 | <.001 |
| Sex |  | -.12 | <.001 | -.13 | <.001 | .07 | .001 | .07 | .002 | -.01 | .735 |
| Race (Black) |  | .13 | <.001 | .18 | <.001 | -.02 | .419 | .01 | .740 | -.09 | <.001 |
| Race (otherwise ident) |  | .02 | .434 | .01 | .620 | .00 | .851 | -.01 | .640 | -.01 | .563 |
| Ethnicity |  | -.04 | .114 | -.03 | .144 | .02 | .373 | -.08 | <.001 | -.04 | .081 |
| Education |  | -.07 | .003 | -.03 | .197 | -.04 | .081 | .21 | <.001 | .21 | <.001 |
| Income |  | -.06 | .005 | -.08 | <.001 | .02 | .415 | .01 | .708 | .08 | <.001 |
| Informant age |  | -.06 | .040 | -.08 | .004 | .01 | .637 | .03 | .280 | .02 | .443 |
| Informant gender |  | .00 | .792 | -.03 | .185 | -.02 | .313 | -.04 | .110 | .01 | .649 |
| Informant education |  | -.02 | .384 | .02 | .432 | -.01 | .686 | .01 | .801 | .08 | <.001 |
| Spouse |  | .10 | .001 | .04 | .191 | -.06 | .067 | -.05 | .096 | .01 | .712 |
| Years known |  | .01 | .767 | .03 | .343 | .05 | .060 | -.01 | .841 | -.01 | .819 |
| Purpose in life |  | -.13 | <.001 | -.12 | <.001 | .19 | <.001 | .10 | <.001 | .02 | .177 |
|  Sample size |  | 2501 |  | 2492 |  | 2519 |  | 2493 |  | 2516 |  |

*Note*. Coefficients are standardized beta coefficients from linear regression. 1 Reverse-scored before averaged with the other activities for the measure of passive activities.

Supplemental Table S8

*Associations Between Purpose in Life and Individual Informant-rated Frequency of Activities Outside the Home*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Predictor |  | Work/Volunteer | Store | Walk | Exercise |
|  |  | β | p | β | p | β | p | β | p |
| Age |  | -.22 | <.001 | -.23 | <.001 | -.08 | <.001 | -.03 | .138 |
| Sex |  | -.03 | .210 | -.02 | .282 | -.08 | <.001 | -.06 | .005 |
| Race (Black) |  | -.01 | .558 | -.06 | .007 | -.01 | .635 | -.01 | .534 |
| Race (otherwise ident) |  | .00 | .838 | -.04 | .052 | .00 | .963 | .00 | .974 |
| Ethnicity |  | .05 | .016 | .05 | .035 | .07 | .003 | .06 | .008 |
| Education |  | .07 | .002 | .04 | .090 | .07 | .003 | .12 | <.001 |
| Income |  | .13 | <.001 | .06 | .012 | .03 | .180 | .06 | .007 |
| Informant age |  | .08 | <.001 | .01 | .778 | .06 | .035 | .06 | .040 |
| Informant gender |  | .02 | .366 | -.04 | .051 | -.07 | .002 | -.04 | .062 |
| Informant education |  | .02 | .274 | .00 | .977 | .01 | .763 | .08 | <.001 |
| Spouse |  | -.10 | <.001 | -.15 | <.001 | -.14 | <.001 | -.09 | .004 |
| Years known |  | .00 | .880 | .04 | .220 | -.01 | .791 | .02 | .571 |
| Purpose in life |  | .20 | <.001 | .12 | <.001 | .10 | <.001 | .09 | <.001 |
|  Sample size |  | 2554 |  | 2548 |  | 2537 |  | 2545 |  |

*Note*. Coefficients are standardized beta coefficients from linear regression.

Supplemental Table S9

*Interaction terms between purpose in life and sociodemographic characteristics, cognitive status, and depression*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Episodicmemory | Speed-attention | Visuospatial ability | Language | Numeric reasoning | Global cognition function |
|  |  | β | p | β | p | β | p | β | p | β | p | β | p |
| Age (years) |  | .02 | .295 | .01 | .620 | .03 | .083 | .04 | .020 | .00 | .772 | .05 | .004 |
| Sex (female) |  | .04 | .108 | .01 | .531 | -.03 | .188 | -.03 | .290 | .01 | .822 | -.04 | .135 |
| Race (Black) |  | .03 | .119 | .03 | .048 | .03 | .088 | -.01 | .565 | .04 | .022 | .05 | .008 |
| Race (otherwise ident) |  | .00 | .913 | .02 | .260 | .01 | .510 | -.02 | .339 | .02 | .408 | .03 | .087 |
| Ethnicity (Hispanic) |  | .00 | .761 | -.01 | .620 | .01 | .556 | -.02 | .257 | .00 | .810 | .02 | .272 |
| Education in years |  | -.03 | .048 | -.03 | .076 | -.02 | .254 | .02 | .175 | .01 | .699 | -.10 | <.001 |
| Income |  | -.04 | .010 | -.02 | .221 | -.02 | .166 | -.02 | .279 | .00 | .943 | -.07 | <.001 |
| Cognitive impairment |  | .00 | .837 | .00 | .728 | -.01 | .534 | .00 | .911 | .01 | .520 | .02 | .084 |
| Depression |  | -.05 | .012 | -.02 | .189 | -.01 | .514 | -.03 | .124 | -.04 | .074 | -.04 | .044 |

*Note*. Coefficients are standardized beta coefficients for the interaction between purpose and each moderator controlling for the main effects and other sociodemographic covariates. Note that age, education, and income were tested as continuous measures, so specific groups were not tested. Decomposition of the interaction effect with Aiken and West’s (1991) method for interactions compared the association at 1SD below and above the mean of age, education, and income and by group membership (Black versus White) for race. Neither cognitive impairment (defined by the MMSE threshold for impairment) nor depression moderated the association between purpose and any of the cognitive domain outcomes. The main effect of purpose on the cognitive domains remained significant when cognitive impairment or depression was included in the model.

Supplemental Table S10

*Interaction terms between purpose in life and sociodemographic characteristics, cognitive status, and depression*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Cognitive decline | Positive Affect | Negative Affect | Passive Activities | Cognitive Activities | Activities outside the house |
|  |  | β | p | β | p | β | p | β | p | β | p | β | p |
| Age in years |  | -.02 | .232 | .02 | .388 | -.03 | .107 | -.03 | .070 | .01 | .510 | .02 | .186 |
| Sex (female) |  | .03 | .357 | -.02 | .475 | .04 | .161 | -.02 | .453 | .00 | .949 | -.02 | .452 |
| Race (Black) |  | .00 | .950 | -.02 | .244 | -.01 | .661 | .05 | .022 | .06 | .003 | -.02 | .288 |
| Race (otherwise ident) |  | -.02 | .393 | .02 | .365 | -.01 | .563 | -.02 | .402 | .02 | .166 | -.02 | .234 |
| Ethnicity (Hispanic) |  | .02 | 376 | .02 | .329 | -.03 | .119 | -.01 | .665 | .00 | .990 | -.03 | .080 |
| Education in years |  | .05 | .004 | -.05 | .012 | .05 | .012 | .02 | .176 | -.02 | .311 | .01 | .616 |
| Income |  | .01 | .565 | -.02 | .309 | .02 | .361 | .01 | .474 | -.03 | .056 | .02 | .212 |
| Cognitive impairment |  | -.01 | .538 | .02 | .440 | -.01 | .696 | -.01 | .785 | .02 | .276 | -.01 | .571 |
| Depression |  | .04 | .140 | .00 | .966 | .02 | .335 | .00 | .979 | -.05 | .033 | -.01 | .571 |

*Note*. Coefficients are standardized beta coefficients for the interaction between purpose and each moderator controlling for the main effects and other sociodemographic and informant covariates. The main effect of purpose on all informant-rated outcomes remained significant when cognitive impairment or depression was included in the model.