Supplemental Table 6. Parameter estimates from latent change score models with dynamic couplings between IADL functioning and reasoning performance: Results from ACTIVE (N=2,802)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Control group | |  | Memory group | |  | Reasoning group | |  | Speed of processing group | |
| Parameter | Estimate | SE |  | Estimate | SE |  | Estimate | SE |  | Estimate | SE |
| Latent variable means |  |  |  |  |  |  |  |  |  |  |  |
| Level of reasoning | -0.14\* | 0.03 |  | -0.08\* | 0.03 |  | 0.29\*+ | 0.03 |  | -0.14\* | 0.03 |
| Change in reasoning | -0.03\* | 0.00 |  | -0.04\* | 0.00 |  | -0.06\* | 0.00 |  | -0.04\* | 0.00 |
| Level of IADL difficulty | -0.19\* | 0.03 |  | -0.20\* | 0.03 |  | -0.16\* | 0.03 |  | -0.17\* | 0.03 |
| Change in IADL difficulty | 0.06\* | 0.01 |  | 0.05\* | 0.01 |  | 0.04\* | 0.01 |  | 0.05\* | 0.01 |
| Couplings |  |  |  |  |  |  |  |  |  |  |  |
| IADL --> change reasoning | -0.11\* | 0.01 |  | -0.11\* | 0.01 |  | -0.10\* | 0.02 |  | -0.13\* | 0.01 |
| Model fit |  |  |  |  |  |  |  |  |  |  |  |
| RMSEA | 0.078 |  |  |  |  |  |  |  |  |  |  |
| CFI | 0.903 |  |  |  |  |  |  |  |  |  |  |

Parameters for latent variable means are in standardized N(0,1) units, per baseline standard deviation units. The row of parameter coefficients for couplings represent the annual rate of change in cognitive functioning at time t + 1, in standardized N(0,1) units, per baseline standard deviation unit level of IADL difficulty at time t.

\* p<0.05, compared to 0 effect

+ p<0.05, compared to the control group