

Supplementary Table 2. Associations of mobility measures at time-point 1 with cognitive function and MRI measures at time-point 2, stratified by age (N= 251, 60-69years; N= 136, 70+years).

	Chair stands (s)				Walking time (s)				Balance (s position held)			
	60-69 years		70+ years		60-69 years		70+ years		60-69 years		70+ years	
	Pearson's r	p	Pearson's r	p	Pearson's r	p	Pearson's r	p	Cohen's d	p	Cohen's d	p
<i>Executive Function</i>		0.416		<b>0.006</b>		<b>0.004</b>		0.775		0.356		0.230
<b>Digit Span: Forward</b>	0.031	0.694	0.002	0.523	-0.086	0.077	-0.029	0.632	0.041	0.393	0.179	0.181
<b>Digit Span: Backward</b>	0.073	0.876	-0.091	0.145	<b>-0.125</b>	<b>0.021</b>	0.056	0.255	0.142	0.183	<b>0.324</b>	<b>0.050</b>
<b>Digit Span: Sequence</b>	-0.004	0.478	<b>-0.251</b>	<b>0.001</b>	-0.076	0.109	-0.019	0.599	0.094	0.283	0.149	0.229
<b>Fluency: Category</b>	<b>-0.145</b>	<b>0.011</b>	-0.032	0.356	<b>-0.200</b>	<b>&lt;0.001</b>	0.126	0.067	0.026	0.442		-0.190
<b>Fluency: Letter</b>	0.063	0.843	<b>-0.257</b>	<b>&lt;0.001</b>	-0.048	0.219	0.063	0.232	0.004	0.491	0.058	0.386
<b>TMT: B*</b>	0.127	0.980	-0.082	0.153	-0.097	0.066	0.003	0.496	0.078	0.306	0.019	0.465
<i>Memory</i>		0.293		0.406		<b>0.004</b>		0.853		0.378		0.307
<b>HVLT-R: Total Recall</b>	0.008	0.553	-0.086	0.154	<b>-0.168</b>	<b>0.004</b>	-0.052	0.723	0.060	0.347	-0.067	0.630
<b>HVLT-R: Delayed Recall</b>	-0.040	0.255	0.001	0.491	<b>-0.166</b>	<b>0.005</b>	-0.022	0.595	<b>0.271</b>	<b>0.046</b>	-0.034	0.564
<b>HVLT-R: Recognition</b>	0.035	0.707	0.081	0.828	<b>-0.179</b>	<b>0.003</b>	0.009	0.454	-0.081	0.691	0.076	0.341
<b>RCF: Immediate Recall</b>	-0.082	0.097	-0.052	0.270	-0.064	0.153	-0.092	0.875	0.038	0.405	0.212	0.134
<b>RCF: Delayed Recall</b>	-0.074	0.122	-0.076	0.185	-0.022	0.364	-0.057	0.753	0.013	0.468	0.283	0.070
<b>RCF: Recognition</b>	0.003	0.518	0.062	0.762	-0.047	0.226	-0.130	0.939	-0.175	0.869	-0.059	0.626

<i>Processing Speed</i>		<i>0.002</i>		<i>0.003</i>		<i>0.081</i>		<i>&lt;0.001</i>		<i>0.029</i>		<i>0.262</i>
TMT: A*	-0.012	0.416	<b>-0.195</b>	<b>0.011</b>	-0.094	0.072	0.055	0.752	0.230	0.080	0.052	0.393
Digit Coding*	<b>-0.077</b>	<b>0.099</b>	<b>-0.161</b>	<b>0.024</b>	<b>-0.115</b>	<b>0.029</b>	-0.089	0.137	0.257	0.052	0.314	0.057
Simple: Reaction Time*	<b>-0.122</b>	<b>0.028</b>	<b>-0.241</b>	<b>0.003</b>	-0.050	0.206	<b>-0.250</b>	<b>0.002</b>	0.145	0.173	0.009	0.473
Choice: Reaction Time*	<b>-0.119</b>	<b>0.027</b>	<b>-0.217</b>	<b>0.007</b>	0.040	0.742	<b>-0.250</b>	<b>0.003</b>	0.247	0.062	0.206	0.148
Simple: Movement Time*	<b>-0.206</b>	<b>&lt;0.001</b>	-0.070	0.203	-0.058	0.176	<b>-0.358</b>	<b>&lt;0.001</b>	<b>0.264</b>	<b>0.049</b>	-0.104	0.703
Choice: Movement Time*	<b>-0.130</b>	<b>0.019</b>	-0.128	0.069	-0.076	0.113	<b>-0.359</b>	<b>&lt;0.001</b>	0.184	0.126	0.036	0.423
<i>MRI measures</i>												
Global gray matter volume (% of TBV)	<b>-0.156</b>	<b>0.006</b>	-0.095	0.121	-0.093	0.059	-0.039	0.318	<b>0.349</b>	<b>0.014</b>	0.074	0.350
Global white matter volume (% of TBV)	0.116	0.974	-0.024	0.384	-0.054	0.197	0.035	0.670	0.182	0.124	0.105	0.292

Model 1: Analyses are adjusted for age, sex and education.

\*Scores have been reversed so that increasing scores indicate better performance.

P-values for individual tests are not corrected for multiple comparisons. TBV = Total brain volume.



