

SUPPLEMENTARY TABLE**Supplementary Table 1. Datasets available for analysis after application of validity criteria.**

Task	Group	<i>n</i> recorded	<i>n</i> (%) excluded	<i>n</i> available for analysis
<i>Inhibition</i>				
Antisaccade task	older adults	109	0 (0.00 %)	109
	young adults	33	0 (0.00 %)	33
Number-Stroop task	older adults	108	0 (0.00 %)	108
	young adults	33	0 (0.00 %)	33
Stop-signal task	older adults	110	7 (6.36 %)	103
	young adults	33	7 (21.21 %)	26
<i>Shifting</i>				
Category-switch task	older adults	111	1 (0.09 %)	110
	young adults	33	0 (0.00 %)	33
Color-shape task	older adults	109	4 (3.67 %)	105
	young adults	33	1 (3.03 %)	32
Number-letter task	older adults	108	2 (1.85 %)	106
	young adults	33	0 (0.00 %)	33
<i>Updating</i>				
Digit-span task	older adults	111	2 (1.80 %)	109
	young adults	33	0 (0.00 %)	33
Keep track task	older adults	109	0 (0.00 %)	109
	young adults	33	0 (0.00 %)	33
Spatial 2-back task	older adults	107	2 (1.87 %)	105
	young adults	33	0 (0.00 %)	33