Supplemental Materials: Reported self-control is not meaningfully associated with inhibition-related executive function: A Bayesian Analysis

Saunders, Milyavskaya, Etz, Randles, & Inzlicht

Raw Correlation Summary:

Incompatible

Condition	Observed r per study				
	1	2a	2b	2c	3
SC RT	.035	.059	.097	.156	.122
SC ER	-.004	.026	-.079	-.171	-.022
SD RT	-.028	.076	.147	.186	.081
SD ER	-.011	-.020	-.048	-.130	-.031

Compatible

Condition	Observed r per study				
	1	2a	2b	2c	3
SC RT	.042	.047	.118	.218	.116
SC ER	.045	-.054	-.040	-.142	.064
SD RT	-.026	.054	.157	.227	.099
SD ER	.067	-.053	-.030	.186	.069

Difference

Condition	Observed r per study				
	1	2a	2b	2c	3
SC RT	-.004	.022	-.036	-.11	.055
SC ER	-.06	.011	-.066	-.107	-.049
SD RT	-.019	.041	-.017	-.082	.007
SD ER	-.097	.016	-.035	-.084	-.062

Bayesian summary:

Study 1

Self-Control Scale

Incompatible: RT (r = .026, BF_{01} = 7.32) and error rates (r = -.012, BF_{01} = 7.73).

Compatible: RT (r = .032, BF_{01} = 7.01) and error rates (r = .035, BF_{01} = 6.86).

Self-Discipline Composite

Incompatible: RT(r = -.036, BF_{01} = 6.83) and error rates (r = -.019, BF_{01} = 7.55).

Compatible: RT (r = -.034, BF_{01} = 6.94) and error rates (r = .057, BF_{01} = 5.52).

Study 2a

Self-Control Scale

Incompatible: RT (r = .050, BF_{0r} = .709) and error rates (r = .016, BF_{0r} = 1.80).

Compatible: RT (r = .043, BF_{0r} = .991) and error rates (r = -.031, BF_{0r} = 1.41).

Self-Discipline Composite

Incompatible: RT (r = .047, BF_{0r} = .865) and error rates (r = -.019, BF_{0r} = 1.74).

Compatible: RT (r = .032, BF_{0r} = 1.46) and error rates (r = -.025, BF_{0r} = 2.16).

Study 2b

Self-Control Scale

Incompatible: RT (r = .071, BF_{0r} = .069) and error rates (r = -.027, BF_{0r} = .85).

Compatible: RT (r = .077, BF_{0r} = .026) and error rates (r = -.035, BF_{0r} = .77).

Self-Discipline Composite

Incompatible: RT (r = .093, BF_{0r} = .004) and error rates (r = -.033, BF_{0r} = .695).

Compatible: RT (r = .089, BF_{0r} = .004) and error rates (r = -.027, BF_{0r} = .987).

Study 2c

Self-Control Scale

Incompatible: RT (r = .102, BF_{0r} = .00019) and error rates (r = -.079, BF_{0r} = .001).

Compatible: RT (r = .128, BF_{0r} = 1.9×10^{-7}) and error rates (r = -.074, BF_{0r} = .004).

Self-Discipline Composite

Incompatible: RT ($r = .126$, $BF_{0r} = 3.7 \times 10^{-6}$) and error rates ($r = -.067$, $BF_{0r} = .012$).

Compatible: RT ($r = .138$, $BF_{0r} = 3.6 \times 10^{-8}$) and error rates ($r = .049$, $BF_{0r} = .119$).

Study 3

Self-Control Scale

Incompatible: RT ($r = .103$, $BF_{0r} = .287$) and error rates ($r = -.075$, $BF_{0r} = 1.29$).

Compatible: RT ($r = .127$, $BF_{0r} = .319$) and error rates ($r = -.064$, $BF_{0r} = 3.40$).

Self-Discipline Composite

Incompatible: RT($r = .123$, $BF_{0r} = .696$) and error rates ($r = -.065$, $BF_{0r} = 1.06$).

Compatible: RT ($r = .136$, $BF_{0r} = .508$) and error rates ($r = .050$, $BF_{0r} = .711$).

Bayesian Fixed Effect MA:

Incompatible

Condition	MA estimate (95%CI)	BF_{01}
SC RT	.103 (.065, .141)	1.96×10^{-5}
SC ER	-.075 (-.113, -.037)	.016
SD RT	.123 (.085,.161)	6.15×10^{-8}
SD ER	-.065 (-.103, -.027)	.112

Compatible

Condition	MA estimate (95% CI)	BF_{01}
SC RT	.127 (.090, .165)	1.16×10^{-8}
SC ER	-0.064 (-.102, -.026)	.114
SD RT	.136 (.098, .173)	7.82×10^{-10}
SD ER	.050 (.012, .089)	1.00