

Meta-analysis: correlation	Shin et al., 2019 - PM 10 - General cognition
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Variable for studies	Study
Variable for number of cases	N
Variable for correlation coefficients	Beta

Study	Sample size	Correlation coefficient	95% CI	z	P	Weight (%)	
						Fixed	Random
Shin et al., 2019 (MMSE-KC)	2896	-0.0350	-0.0713 to 0.00143			33.33	33.33
Shin et al., 2019 (DFS)	2896	-0.0290	-0.0654 to 0.00743			33.33	33.33
Shin et al., 2019 (DBS)	2896	0.0220	-0.0144 to 0.0584			33.33	33.33
Total (fixed effects)	8688	-0.0140	-0.0350 to 0.00703	-1.305	0.192	100.00	100.00
Total (random effects)	8688	-0.0140	-0.0494 to 0.0214	-0.774	0.439	100.00	100.00

Test for heterogeneity

Q	5.6792
DF	2
Significance level	P = 0.0584
I ² (inconsistency)	64.78%
95% CI for I ²	0.00 to 89.90



Meta-analysis: correlation	Shin et al., 2019 - PM 10 - Memory
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Variable for studies	Study
Variable for number of cases	N
Variable for correlation coefficients	Beta

Study	Sample size	Correlation coefficient	95% CI	z	P	Weight (%)	
						Fixed	Random
Shin et al., 2019 (WL memory)	2896	0.0490	0.0126 to 0.0853			33.33	33.33
Shin et al., 2019 (WL recall)	2896	-0.0110	-0.0474 to 0.0254			33.33	33.33
Shin et al., 2019 (WL recognition)	2896	0.00100	-0.0354 to 0.0374			33.33	33.33
Total (fixed effects)	8688	0.0130	-0.00803 to 0.0340	1.212	0.225	100.00	100.00
Total (random effects)	8688	0.0130	-0.0229 to 0.0489	0.709	0.478	100.00	100.00

Test for heterogeneity

Q	5.8405
DF	2
Significance level	P = 0.0539
I ² (inconsistency)	65.76%
95% CI for I ²	0.00 to 90.15



Meta-analysis: correlation	Shin et al., 2019 - NO 2 - Memory
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Variable for studies	Study
Variable for number of cases	N
Variable for correlation coefficients	Beta

Study	Sample size	Correlation coefficient	95% CI	z	P	Weight (%)	
						Fixed	Random
Shin et al., 2019 (WL memory)	2896	0.0340	-0.00243 to 0.0703			33.33	33.33
Shin et al., 2019 (WL recall)	2896	-0.0190	-0.0554 to 0.0174			33.33	33.33
Shin et al., 2019 (WL recognition)	2896	-0.00300	-0.0394 to 0.0334			33.33	33.33
Total (fixed effects)	8688	0.00400	-0.0170 to 0.0250	0.373	0.709	100.00	100.00
Total (random effects)	8688	0.00400	-0.0268 to 0.0348	0.255	0.799	100.00	100.00

Test for heterogeneity

Q	4.2784
DF	2
Significance level	P = 0.1177
I ² (inconsistency)	53.25%
95% CI for I ²	0.00 to 86.60



Meta-analysis: correlation	Gatto et al., 2014 - NO2 - Memory
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Variable for studies	Study
Variable for number of cases	N
Variable for correlation coefficients	Beta

Study	Sample size	Correlation coefficient	95% CI	z	P	Weight (%)	
						Fixed	Random
Gatto et al., 2014 (LM)	1496	-0.620	-0.650 to -0.588			33.33	33.33
Gatto et al., 2014 (VEM)	1496	-0.260	-0.307 to -0.212			33.33	33.33
Gatto et al., 2014 (SM)	1496	-0.240	-0.287 to -0.192			33.33	33.33
Total (fixed effects)	4488	-0.390	-0.415 to -0.365	-27.571	<0.001	100.00	100.00
Total (random effects)	4488	-0.390	-0.616 to -0.105	-2.630	0.009	100.00	100.00

Test for heterogeneity

Q	219.8010
DF	2
Significance level	P < 0.0001
I ² (inconsistency)	99.09%
95% CI for I ²	98.53 to 99.44

Friday, May 19, 2023 19:00

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Meta-analysis: correlation	Gatto et al., 2014 - PM2.5 - Memory
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Variable for studies	Study
Variable for number of cases	N
Variable for correlation coefficients	Beta

Study	Sample size	Correlation coefficient	95% CI	z	P	Weight (%)	
						Fixed	Random
Gatto et al., 2014 (LM)	1496	-0.120	-0.170 to -0.0697			33.33	33.33
Gatto et al., 2014 (VEM)	1496	-0.190	-0.238 to -0.141			33.33	33.33
Gatto et al., 2014 (SM)	1496	-0.0700	-0.120 to -0.0194			33.33	33.33
Total (fixed effects)	4488	-0.127	-0.156 to -0.0981	-8.545	<0.001	100.00	100.00
Total (random effects)	4488	-0.127	-0.195 to -0.0581	-3.601	<0.001	100.00	100.00

Test for heterogeneity

Q	11.2643
DF	2
Significance level	P = 0.0036
I ² (inconsistency)	82.24%
95% CI for I ²	45.37 to 94.23

Monday, May 22, 2023 18:56

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Meta-analysis: correlation	Shin et al., 2019 - NO 2 - General cognition
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Variable for studies	Study
Variable for number of cases	N
Variable for correlation coefficients	Beta

Study	Sample size	Correlation coefficient	95% CI	z	P	Weight (%)	
						Fixed	Random
Shin et al., 2019 (MMSE-KC)	2896	0.0120	-0.0244 to 0.0484			33.33	33.33
Shin et al., 2019 (DFS)	2896	-0.0260	-0.0624 to 0.0104			33.33	33.33
Shin et al., 2019 (DBS)	2896	0.0150	-0.0214 to 0.0514			33.33	33.33
Total (fixed effects)	8688	0.000332	-0.0207 to 0.0214	0.0309	0.975	100.00	100.00
Total (random effects)	8688	0.000332	-0.0255 to 0.0262	0.0252	0.980	100.00	100.00

Test for heterogeneity

Q	3.0232
DF	2
Significance level	P = 0.2206
I ² (inconsistency)	33.85%
95% CI for I ²	0.00 to 78.29

