

## Supplements

### 1. Studies included in meta-analysis

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## 2. Supplemental Tables

Supplemental table 1. Fit statistics (-2LL) of meta-analysis of heritability.

Domain	Intercept only	Linear	Quadratic	3-slope
Verbal	304.7	299.6 <sup>a</sup>	293.2 <sup>b</sup>	
Spatial	161.3	161.3	160.3	
General Memory	372.2	370.9	369.1	
Speed	228.3	227.7	227.3	
Working Memory	229.1	228.9	228.8	
Executive Function	197.8	197.4	196.4	192.6 <sup>c</sup>

<sup>a</sup> Model fit is significantly different from intercept only model at  $p < .05$

<sup>b</sup> Model fit is significantly different from linear model at  $p < .05$

<sup>c</sup> Model fit is marginally significantly different from linear model at  $p < .10$

Supplemental table 2. Parameter estimates (standard errors) of meta-analysis of heritability.

Domain	Quadratic Model			3-Slope Model			
	Intercept	Slope	Quad	Intercept	Slope 20-50	Slope 50-65	Slope 65-90
Verbal	0.54 (.039)	-0.007 (.003)	-0.00014 (.0001)				
Spatial	0.59 (.068)	-0.004 (.004)	-0.00015 (.0001)				
General Memory	0.45 (.042)	-0.002 (.003)	-0.00015 (.0001)				
Speed	0.39 (.073)	0.008 (.005)	0.00016 (.0002)				
Working Memory	0.39 (.053)	-0.002 (.003)	-0.00006 (.0002)				
Executive Function	0.50 (.063)	0.006 (.007)	0.00021 (.0002)	0.26 (.155)	-0.013 (.007)	0.021 (.010)	-0.013 (.014)

\* Note: intercept of quadratic model is at age 65; intercept of 3-slope model is at age 50.

Supplemental table 3. Fit statistics and criteria: meta analysis of MZ/DZ correlation ratios.

Domain	Unconditional (parms=3)		Age & Age <sup>2</sup> (parms=5 <sup>a</sup> )		Age & Age <sup>2</sup> , between study=0 (parms=4 <sup>a</sup> )	
	-2LL	AIC	-2LL	AIC	-2LL	AIC
Verbal	22.3	28.3	19.3	29.3	19.4	27.4
Spatial	5.6	11.6	5.4	15.4	5.4	13.4
General Memory	36.0	42.0	34.7	44.7	35.1	43.1
Speed	18.5	24.5	15.3	25.3	15.3	23.3
Working Memory	23.7	29.7	21.4	31.4	21.5	29.5
Executive Function <sup>a</sup>	2.6	8.6	0.8	8.8	0.8	6.8

a. Only Linear Age entered for Executive Function, hence the number of parameters for the age models is one fewer.