

Supplementary table III – Trivariate AE model fitting for sex differences

Trivariate AE model results (males)								
SV	h^2 SV (95% CI)	e^2 SV (95% CI)	Rph SV ~ FSIQ (95% CI)	Rg SV ~ FSIQ (95% CI)	Re SV ~ FSIQ (95% CI)	Rph SV ~ TB (95% CI)	Rg SV ~ CBV (95% CI)	Re SV ~ CBV (95% CI)
Thalamus	0.84 (0.73-0.91)	0.16 (0.09-0.27)	0.21 (-0.05-0.44)	0.20 (-0.15-0.63)	0.29 (-0.15-0.63)	0.66 (0.52-0.76)	0.67 (0.50-0.79)	0.62 (0.36-0.79)
Caudate N.	0.73 (0.52-0.85)	0.27 (0.15-0.48)	0.10 (-0.56-0.47)	0.13 (-0.98-0.52)	-0.02 (-0.24-0.55)	0.39 (0.19-0.55)	0.40 (0.18-0.61)	0.39 (0.44-0.65)
Putamen	0.83 (0.68-0.90)	0.17 (0.10-0.32)	0.09 (-0.17-0.33)	0.07 (-0.24-0.38)	0.15 (-0.37-0.58)	0.55 (0.39-0.68)	0.55 (0.36-0.70)	0.55 (0.26-0.75)
Pallidum	0.73 (0.53-0.84)	0.27 (0.16-0.47)	0.14 (-0.10-0.36)	0.06 (-0.26-0.36)	0.43 (-0.07-0.73)	0.54 (0.37-0.67)	0.58 (0.36-0.74)	0.46 (0.14-0.69)
Hippocampus	0.91 (0.83-0.95)	0.09 (0.05-0.27)	0.15 (-0.13-0.41)	0.15 (-0.18-0.45)	0.17 (-0.36-0.60)	0.61 (0.46-0.72)	0.63 (0.46-0.76)	0.41 (0.07-0.66)
Amygdala	0.74 (0.58-0.85)	0.26 (0.15-0.42)	0.13 (-0.14-0.39)	0.19 (-0.17-0.51)	-0.06 (-0.49-0.39)	0.53 (0.36-0.66)	0.59 (0.38-0.75)	0.30 (-0.27-0.75)
N. Accumbens	0.24 (0.01-0.51)	0.76 (0.49-0.99)	0.17 (-0.06-0.38)	0.17 (-0.06-0.38)	0.38 (-0.08-0.69)	0.35 (0.17-0.52)	0.52 (0.08-1.00)	0.43 (0.09-0.67)

Table A

Trivariate AE model results (females)								
SV	h^2 SV (95% CI)	e^2 SV (95% CI)	Rph SV ~ FSIQ (95% CI)	Rg SV ~ FSIQ (95% CI)	Re SV ~ FSIQ (95% CI)	Rph SV ~ TB (95% CI)	Rg SV ~ CBV (95% CI)	Re SV ~ CBV (95% CI)
Thalamus	0.78 (0.58-0.89)	0.22 (0.11-0.42)	0.27 (-0.07-0.53)	0.37 (-0.03-0.70)	-0.45 (-0.77-0.21)	0.79 (0.68-0.86)	0.82 (0.69-0.90)	0.66 (0.38-0.83)
Caudate N.	0.85 (0.69-0.92)	0.15 (0.08-0.31)	-0.08 (-0.35-0.19)	-0.03 (-0.33-0.29)	-0.67 (-0.89-0.32)	0.46 (0.26-0.62)	0.47 (0.23-0.56)	0.58 (0.45-0.70)
Putamen	0.73 (0.47-0.86)	0.27 (0.14-0.53)	0.12 (-0.44-0.21)	-0.07 (-0.46-0.36)	-0.54 (-0.84-0.38)	0.54 (0.38-0.68)	0.69 (0.46-0.88)	0.02 (-0.38-0.42)
Pallidum	0.69 (0.44-0.84)	0.31 (0.16-0.56)	-0.15 (-0.45-0.17)	-0.16 (-0.54-0.16)	-0.24 (-0.54-0.26)	0.60 (0.44-0.72)	0.73 (0.51-0.91)	0.20 (-0.20-0.55)
Hippocampus	0.60 (0.34-0.77)	0.40 (0.23-0.36)	0.18 (-0.12-0.45)	0.27 (-0.14-0.63)	0.27 (-0.14-0.36)	0.32 (0.49-0.74)	0.66 (0.44-0.81)	0.65 (0.37-0.82)
Amygdala	0.76 (0.52-0.88)	0.24 (0.12-0.48)	0.01 (-0.34-0.36)	0.02 (-0.34-0.36)	0.02 (-0.39-0.42)	0.66 (0.52-0.77)	0.74 (0.54-0.89)	0.37 (-0.48-0.67)
N. Accumbens	0.68 (0.41-0.83)	0.32 (0.17-0.59)	0.04 (-0.27-0.33)	0.04 (-0.27-0.33)	-0.05 (-0.44-0.33)	0.59 (0.43-0.71)	0.55 (0.31-0.72)	0.79 (0.57-0.90)

Table B

Table A provides the results for male subjects and table B for female subjects. Columns one and two provide estimates of heritability and environmental factors on subcortical volume. Column three shows the phenotypic correlation between subcortical volumes (SV) and FSIQ. In column four and five show the genetic and environmental correlations between SV and FSIQ. Column six shows the phenotypic correlation between SV and CBV. Columns seven and eight display the genetic and environmental correlations between subcortical volumes and CBV. All estimates are followed by a 95% confidence interval (CI) between brackets.