

Supplementary Materials

“Associations of arterial thickness, stiffness and blood pressure with brain morphology in early adolescence: A prospective population-based study”

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Methods S1 | Imputation rationale and quality

Imputation strategy

Missing values in continuous variables were imputed by random forest imputation¹, as implemented by the mice package (version 3.13.0), while categorical variables (i.e., sex, ethnicity, and maternal education) were imputed using standard mice method (logistic regression). We used 10 trees and 40 iterations to construct 20 imputed datasets².

Random forest imputation is a machine learning technique, derived from classification and regression trees predictive models, which recursively subdivide the data based on values of the predictors. The technique does not rely on any distributional assumptions, and can conveniently accommodate nonlinearities and interactions, in the data, without need for them to be explicitly specified in the imputation model. While more computationally intensive compared to traditional regression-based imputation (i.e., full conditional specification), the technique is ideal for situations where, for example, multicollinearity issues, or the omission of important nonlinear terms may complicate model specification, potentially yielding biased parameter estimates and standard errors.

Records with missing values were imputed by random draws from independent normal distributions centered on conditional means predicted using random forest. The method fits each tree to a different bootstrap sample of the data (to prevent overfitting) and aggregates the results.

The auxiliary variables selected for the imputation model included: all available repeated measures of the key variables of interest, and an additional set of auxiliary variables that were selected because they are believed to be either related to missingness or to the variables of interest themselves.

These included: total brain and gray matter volumes, global fractional anisotropy and mean diffusivity, (at 10 years), total intracranial volume, cortical grey matter volume, subcortical gray matter volume, white matter volume, CSF volume, brainstem volume, cerebellum subcortical and cortical volumes (at 10 and 13 years); all individual subcortical brain region volumes and white matter tracts FA and MD (at 10 and 13 years); systolic and diastolic blood pressure (at 6 years); sex; ethnicity; age at MRI visit (both 10 and 13 years) and age at ultrasound/blood pressure measurement visit (10 years); height (at 6 and 10 years); BMI z-score (at 6 and 10 years); maternal age (at conception); maternal education (during pregnancy and when children were 3 and 6 years old); household income (at 6 years); maternal BMI (pre-pregnancy and at 6 years); gestational age and weight at birth; parity.

Theoretical rationale

There are two important potential consequences of missing data. The first is the decrease in *precision* (wider confidence intervals) and *power* caused by the reduction in data. The second, and more serious, is the potential for *bias* in the estimation of association parameters.

Primer: missing data mechanisms

The complexity of the missing data problem, i.e., obtaining accurate inferential estimates in the presence of missing data, depends on the nature of the mechanism by which data are missing. Little and Rubin³ provided a popular framework to describe categories of missing data mechanisms given the relationship with observed and unobserved values.

The less problematic scenario occurs when the probability of an observable data point being missing does not depend on any observed or unobserved parameters: Missing Completely at Random (MCAR). More commonly, the missingness probability depends on observed variables, and hence it can be accounted for by the information contained in the dataset: Missing at Random (MAR). The most challenging missingness mechanism occurs when the missingness probability depends on unobserved values: Missing Not at Random (MNAR).

Unfortunately, it is not possible to distinguish between MAR and MNAR mechanisms without additional external data or prior knowledge. However, the MAR assumption is usually reasonable in the context of longitudinal observational studies.

It is important to realize that the term *missing at random* does not mean that the missing data are a simple random subsample of all the data points. That scenario is MCAR. Under MAR, missing data may be more frequent in some subgroups than in others, but information defining the subgroups is observed.

Among the various available approaches to handling missing data, multiple imputation (MI) has been widely adopted and accepted by methodologists as an appropriate framework for dealing with MAR (and MCAR) mechanisms.

Although simpler solutions for handling missing outcomes are still routinely used, these approaches have been amply shown to be inadequate and even misleading, as they do not preserve important characteristics of the whole

data set, such as key relationships among the variables and means. For instance, list-wise deletion (e.g., selecting on outcome availability prior to imputation) *requires MCAR data* in order to not introduce bias in the result, it makes strong assumptions about the covariance structure of the data (that it is compound symmetric), and it has been discouraged by statisticians.

In our study, we have strong reason to believe that dropout / missingness might depend at least partly on measured (or unmeasured) variables. For example, children who did have measured brain outcomes are more often female ($P < 0.001$ for structural MRI; $P = 0.042$ for DTI data), Dutch ($P < 0.001$ in both subsamples), and first born ($P = 0.028$; $P = 0.029$), they come from families with higher income ($P < 0.001$; $P = 0.001$), they have higher gestational weight ($P = 0.001$), and they have older ($P < 0.001$) and more highly educated mothers ($P = 0.001$).

Based on these statistics, one can speculate, for example, that families with higher socio-economic status may be more likely to bring their children to the follow-up visits. On the other end, children from low socio-economic status families would be underrepresented in the (complete-cases) sample. In other words, the MCAR assumption is likely violated.

Hence, although it is important to point out that our approach relies on MAR assumptions, and we cannot guarantee unbiased results under the situation where missingness depends on unobserved information (MNAR), these assumptions are not nearly as unrealistic as those required for a complete-case analysis. Additionally, it has been argued that MI can offer some protection against MNAR mechanisms, unlike MCAR methods.

Missing patterns and imputation quality results

Key variables' descriptives before (i.e., in the original sample) and after imputation (i.e., pooled across the 20 imputed datasets) together with the number and percentage of missing values are presented in *Table S1*. Note how differences between the pooled (i.e., after imputation) and the original metrics are very small. None of these differences resulted statistically significant.

The fraction of missing values per variable ranges from 0 to a maximum of 77% (i.e., structural MRI metrics). Although the level of missingness naturally affects MI performance, we decided to leverage all available data even when missingness was extensive, as recommended by several statisticians. In support of this approach, two simulation studies also suggested that, under the condition of a large enough sample size (< 1000), such levels of missingness still allow for a reasonably low expected bias if any.

Convergence

Visual inspection of the convergence graphs showed no signs of unhealthy convergence. In some cases, the trace lines showed strong initial trends and slow mixing, but regardless of the proportion of missing data, results were stable after ~20 of the 40 iterations. Convergence plots are not presented here, but are available upon request to SD.

Imputed vs. observed values

Next, we inspected and compared the density of the incomplete and imputed data. These graphs are [publicly available](#) for the key variables of interest. The blue line marks the observed and red lines indicate imputed values.

Sensitivity analysis

A thorough and sensible sensitivity analysis is an important step in producing and reporting robust estimates. Hence, we also included a sensitivity analysis to assess the extent to which our analyses were robust to missing data assumptions. None of the main conclusions were impacted.

Methods S2 | Non-linear effects of each exposure

To assess potential non-linearities in the relationship between each arterial health marker (i.e., IMT, Distensibility, SBP and DBP) and the brain outcomes of interest (i.e., TBV, GMV, FA and MD), we tested a set of 8 non-linear models (i.e., one for each exposure – outcome pair).

More specifically, we first determined whether evidence of a non-linear association was present based on global F-test(s) comparing the linear models to four polynomial alternatives (i.e., 2nd- to 5th- degree polynomials). We considered non-linearity present if at least one of these comparisons was statistically significant ($P < 0.05$).

To then characterize the shape of these non-linear associations, we plotted natural spline terms using 4 knots. This approach allowed us to adequately represent the complexity of these relationships, without incurring overfitting problems due to unduly complex models.

Methods S3 | Linear mixed-effect model

To assess the relationship between arterial health and brain changes from 10 to 14 years (i.e., two timepoints), we ran a linear mixed-effect model using the `lmer()` function from the `lme4` R package.⁴

Models included a random intercept and a fixed-effect part corresponding to the interaction between each exposure of interest (i.e., IMT, distensibility, SBP and DBP) and age at MRI measurement + the base and full set of covariates. When the interaction terms between each exposure and age resulted not statistically significant, they were removed from the models, to grant more interpretable main effects of each exposure. The optimization criterium was set to maximum likelihood (i.e., REML=FALSE).

Note that, outcomes were included in the model in their original scale (cm³), rather than their standardized version, because centering dependent variables in mixed-effects models which include random effects per subject has been shown to result in incorrect estimated correlations, likelihood values and predictions.⁴

P-values for fixed effects were computed via the Satterthwaite's degrees of freedom approximation, as implemented by the R package `lmerTest`.

Methods S4 | Vertex wise cortical thickness

Exploratory vertex-wise cortical thickness analyses were performed in R using the [QDECOR](#) package.

Cortical thickness was calculated as the closest distance from the grey-white matter boundary to the grey-cerebrospinal fluid boundary at each vertex on the tessellated surface. The labeling of clusters identified in the brain was performed using the technique of Klein & Tourville. The cluster-forming threshold was set to $p=0.001$, as it has shown to correspond closely to a false-positive rate of 0.05. Prior to analyses images were smoothed using a 10 mm full-width-at-half-maximum Gaussian kernel. Reconstructed images were visually inspected and images that were rated as poor were excluded.

Supplemental references

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3. Rubin DB. Multiple imputation for survey nonresponse. New York: Wiley; 1987.
4. Bates D, Mächler M, Bolker B, Walker S. Fitting Linear Mixed-Effects Models Using lme4. *Journal of Statistical Software.* 10/07 2015;67(1):1 - 48. doi:10.18637/jss.v067.i01

Table S1 - Assessment of missing values and imputation quality

Measure	Timepoint	Full sample, singleton alive atbirth (N = 8912)		Main sample, focus at 9 visit (n = 5341)		Structural MRI at 14 years sample (n = 2054)		DTI at 14 years sample (n = 2308)	
		Mean (range); n (%) before imputation	NAs (%)	Mean (range); n (%) after imputation	NAs (%)	Mean (range); n (%) before imputation	NAs (%)	Mean (range); n (%) after imputation	NAs (%)
Sex, n (%)									
Male participants	Birth	4506 (50.6%)	3 (0%)	4507 (50.6%)	2646 (49.5%)	1 (<0.1%)	2647 (49.6%)	954 (46.4%)	0 (0%)
Female participants		4403 (49.4%)		4405 (49.4%)	2694 (50.4%)		2694 (50.4%)	1100 (53.6%)	1100 (53.6%)
Parental country of origin, n (%)									
Africa and Middle East	Birth	317 (3.6%)		371 (4.2%)	160 (3.0%)		172 (3.2%)	54 (2.6%)	
Asia and Oceania		201 (2.8%)		301 (3.4%)	152 (2.9%)		164 (3.1%)	50 (2.4%)	
Cape Verdean		250 (2.8%)		304 (3.4%)	166 (3.1%)		177 (3.3%)	61 (3.0%)	
Dutch		4322 (48.5%)		4374 (49.1%)	3032 (56.8%)		3044 (57.0%)	1196 (58.2%)	
Dutch Antillean		356 (4.0%)		410 (4.6%)	154 (2.9%)		166 (3.1%)	75 (3.7%)	
Europe		602 (7.3%)	581 (6.5%)	602 (7.3%)	392 (7.4%)	128 (2.4%)	404 (7.6%)	160 (8.0%)	44 (2.1%)
Latin America		149 (1.7%)		202 (2.3%)	94 (1.8%)		106 (2.0%)	39 (1.9%)	
Moroccan		606 (6.8%)		659 (7.4%)	286 (5.4%)		298 (5.6%)	102 (5.0%)	
North America		51 (0.6%)		104 (1.2%)	30 (0.6%)		42 (0.8%)	16 (0.8%)	
Surinamese		679 (7.6%)		730 (8.2%)	385 (7.2%)		397 (7.4%)	157 (7.6%)	
Turkish		701 (7.9%)		754 (8.5%)	361 (6.8%)		372 (7.0%)	104 (5.1%)	
Gestational weight, grams, mean (SD)	Birth	3401.00 (564.68)	77 (0.9%)	3399.60 (566.40)	3425.00 (553.72)	10 (0.2%)	3424.95 (554.25)	3447.00 (561.56)	2 (0.1%)
Gestational age, weeks, median [range]	Birth	40.10 [20.86-43.71]	83 (0.9%)	40.10 [20.86-43.71]	40.14 [26.29-43.57]	35 (0.7%)	40.14 [26.29-43.57]	40.14 [26.71-43.57]	16 (0.8%)
Parity, n (%)									
First-born	Birth	4839 (54.3%)	348 (3.9%)	5079 (57.0%)	3020 (56.5%)		3143 (58.8%)	1129 (55.0%)	58 (2.8%)
Second-born		2478 (27.8%)		2550 (28.6%)	1480 (27.8%)		1520 (28.5%)	624 (30.4%)	
≥ Third-born		1250 (14.0%)		1283 (14.3%)	660 (12.3%)		677 (12.8%)	254 (12.3%)	
Maternal age, years, mean (SD)	Birth	29.78 (5.42)	2 (0%)	29.78 (5.42)	30.86 (5.02)	1 (<0.1%)	30.86 (5.02)	31.07 (4.96)	0 (0%)
Maternal BMI, kg/m², median [range]	pre-pregnancy	22.66 [14.38-50.21]	2397 (26.9%)	22.70 [14.38-50.21]	22.59 [15.73-53.84]	1315 (24.6%)	22.62 [15.73-50.21]	22.67 [15.73-50.21]	485 (23.6%)
	6 years	24.76 [15.73-61.35]	2956 (33.2%)	24.90 [15.73-61.35]	24.55 [15.73-53.84]	492 (9.2%)	24.57 [15.73-53.84]	24.53 [16.31-61.35]	159 (7.7%)
Parental education, n (%)									
Low	6 years	2561 (28.6%)	3247 (36.4%)	4715 (53.0%)	1912 (35.8%)	814 (15.2%)	2447 (45.9%)	707 (34.4%)	273 (13.3%)
Medium		1523 (17.1%)		2070 (23.2%)	1284 (24.0%)		1424 (26.7%)	505 (24.6%)	
High		1581 (17.7%)		2128 (23.9%)	1331 (24.9%)		1470 (27.5%)	615 (29.9%)	
Family income, n (%)									
Low	6 years	925 (10.4%)	3571 (40.1%)	1897 (21.2%)	672 (12.6%)	1046 (19.6%)	959 (18.0%)	234 (11.4%)	372 (18.1%)
Medium		2659 (29.8%)		4280 (48.0%)	2145 (40.2%)		2613 (48.9%)	833 (40.6%)	
High		1757 (19.7%)		2735 (30.7%)	1478 (27.6%)		1769 (33.1%)	615 (30.0%)	
Child age, years, median [range]	10 years	9.74 [8.53-12.72]	3574 (40.1%)	9.74 [8.53-12.72]	9.74 [8.53-12.72]	0 (0%)	9.74 [8.53-12.72]	9.71 [8.56-12.72]	133 (6.5%)
Height, cm, mean (SD)	10 years	141.50 (6.71)	3716 (41.7%)	141.63 (6.65)	141.50 (6.71)	144 (2.7%)	141.51 (6.72)	141.50 (6.61)	146 (7.1%)
BMI, median [range]	10 years	17.00 [12.02-35.41]	3716 (41.7%)	17.15 [12.02-35.41]	17.00 [12.02-35.41]	144 (2.7%)	17.01 [12.02-35.41]	16.99 [12.02-32.69]	146 (7.1%)
Carotid intima-media thickness (IMT), mm, mean (SD)	10 years	0.46 (0.04)	4256 (47.8%)	0.46 (0.04)	0.46 (0.04)	687 (12.9%)	0.46 (0.04)	0.46 (0.04)	307 (14.9%)
Carotid distensibility, kPa × 10⁻³, mean (SD)	10 years	57.24 (12.39)	4423 (49.6%)	57.20 (12.35)	57.20 (12.39)	854 (16%)	57.24 (12.38)	57.83 (12.43)	373 (18.2%)
Systolic blood pressure (SBP), mm Hg, mean (SD)	10 years	103.28 (7.97)	3910 (43.9%)	103.45 (7.86)	103.27 (7.97)	338 (6.3%)	103.28 (7.95)	103.01 (7.69)	207 (10.1%)
Diastolic blood pressure (DBP), mm Hg, mean (SD)	10 years	58.70 (6.42)	3910 (43.9%)	58.77 (6.37)	58.67 (6.40)	338 (6.3%)	58.68 (6.40)	58.40 (6.34)	208 (10.1%)
Child age at MRI, years, median [range]	10 years	9.93 [8.55-13.00]	5033 (56.5%)	9.98 [8.55-13.00]	9.93 [8.55-13.00]	1468 (27.5%)	9.98 [8.55-13.00]	9.93 [8.72-13.00]	582 (28.3%)
	14 years	13.82 [12.59-17.11]	5444 (61.1%)	13.83 [12.59-17.11]	13.82 [12.59-16.68]	2078 (38.9%)	13.82 [12.59-17.11]	13.84 [12.59-17.11]	0 (0%)
Total brain volume (TBV), cm³, mean (SD)	10 years	1199.70 (115.54)	7495 (84.1%)	1196.35 (92.28)	1199.40 (115.04)	3925 (73.5%)	1196.76 (97.54)	1199.10 (115.25)	645 (31.4%)
	14 years	1223.00 (114.18)	8863 (77%)	1223.15 (90.00)	1223.00 (113.16)	3424 (64.1%)	1223.00 (95.45)	1223.00 (114.11)	0 (0%)
Grey matter volume (GMV), cm³, mean (SD)	10 years	752.80 (68.50)	7495 (84.1%)	750.28 (55.65)	752.70 (68.30)	3925 (73.5%)	750.72 (58.57)	752.40 (68.39)	645 (31.4%)
	14 years	748.10 (66.58)	8863 (77%)	747.87 (53.34)	749.30 (66.00)	3424 (64.1%)	748.45 (56.34)	748.00 (66.50)	0 (0%)
Global fractional anisotropy (FA), mean (SD)	10 years	0.53 (0.03)	7384 (82.9%)	0.54 (0.02)	0.53 (0.03)	381 (7.14%)	0.54 (0.02)	0.53 (0.03)	727 (35.4%)
	14 years	0.55 (0.02)	6609 (74.2%)	0.55 (0.01)	0.55 (0.02)	3186 (59.7%)	0.55 (0.01)	0.55 (0.02)	55 (2.7%)
Global mean diffusivity (MD), mm²/sec × 10³, mean (SD)	10 years	0.82 (0.02)	7384 (82.9%)	0.82 (0.02)	0.82 (0.02)	381 (7.14%)	0.82 (0.02)	0.82 (0.02)	727 (35.4%)
	14 years	0.80 (0.02)	6609 (74.2%)	0.80 (0.02)	0.80 (0.02)	3186 (59.7%)	0.80 (0.02)	0.80 (0.02)	55 (2.7%)
Total intracranial volume, cm³, mean (SD)	10 years	1502.20 (143.10)	7495 (84.1%)	1499.73 (118.23)	1501.70 (142.49)	3925 (73.5%)	1500.19 (123.94)	1501.30 (142.95)	645 (31.4%)
	14 years	1573.70 (153.40)	8863 (77%)	1574.22 (125.23)	1570.00 (151.80)	3424 (64.1%)	1574.53 (131.46)	1573.60 (153.23)	0 (0%)
Total cortical volume, cm³, mean (SD)	10 years	575.60 (58.06)	7495 (84.1%)	571.17 (47.79)	573.50 (57.89)	3925 (73.5%)	571.47 (49.99)	573.20 (57.92)	645 (31.4%)
	14 years	563.40 (54.62)	8863 (77%)	565.08 (43.99)	566.30 (54.18)	3424 (64.1%)	565.50 (46.30)	565.20 (54.55)	0 (0%)
Total subcortical volume, cm³, mean (SD)	10 years	60.38 (4.64)	7495 (84.1%)	60.33 (3.77)	60.36 (4.60)	3925 (73.5%)	60.34 (3.97)	60.34 (4.62)	645 (31.4%)
	14 years	61.48 (4.83)	8863 (77%)	61.53 (3.93)	61.54 (4.80)	3424 (64.1%)	61.53 (4.14)	61.47 (4.82)	0 (0%)
White matter volume, cm³, mean (SD)	10 years	419.70 (50.11)	7495 (84.1%)	419.17 (40.97)	419.50 (49.81)	3925 (73.5%)	419.27 (42.91)	419.50 (49.88)	645 (31.4%)
	14 years	447.60 (51.34)	8863 (77%)	447.57 (42.35)	448.00 (50.85)	3424 (64.1%)	447.71 (44.33)	447.60 (51.35)	0 (0%)
CSF volume, cm³, mean (SD)	10 years	0.91 (0.19)	5316 (59.6%)	0.91 (0.19)	0.90 (0.19)	174 (32.7%)	0.91 (0.19)	0.90 (0.19)	645 (31.4%)
	14 years	0.93 (0.21)	5607 (62.9%)	0.93 (0.21)	0.93 (0.21)	2229 (41.7%)	0.93 (0.21)	0.93 (0.18)	0 (0%)
Brainstem volume, cm³, mean (SD)	10 years	18.64 (1.90)	5316 (59.6%)	18.66 (1.79)	18.64 (1.90)	174 (32.7%)	18.66 (1.86)	18.63 (1.92)	645 (31.4%)
	14 years	20.18 (2.30)	5607 (62.9%)	20.22 (2.14)	20.18 (2.30)	2229 (41.7%)	20.21 (2.09)	20.20 (2.09)	0 (0%)
Cerebellum cortical volume, cm³, mean (SD)	10 years	58.86 (5.65)	5316 (59.6%)	58.86 (5.36)	58.85 (5.65)	174 (32.7%)	58.85 (5.73)	58.81 (5.73)	645 (31.4%)
	14 years	59.36 (7.78)	5607 (62.9%)	59.37 (7.47)	59.40 (7.83)	2229 (41.7%)	59.41 (7.66)	60.21 (5.96)	60 (2.9%)
Cerebellum subcortical volume, cm³, mean (SD)	10 years	13.05 (1.46)	5316 (59.6%)	13.07 (1.39)	13.05 (1.46)	174 (32.7%)	13.06 (1.43)	13.03 (1.47)	645 (31.4%)
	14 years	13.26 (1.91)	5607 (62.9%)	13.30 (1.86)	13.26 (1.93)	2229 (41.7%)	13.28 (1.89)	13.31 (1.44)	0 (0%)
Accumbens, cm³, mean (SD)	10 years	0.68 (0.10)	7495 (84.1%)	0.68 (0.09)	0.68 (0.10)	3925 (73.5%)	0.68 (0.09)	0.68 (0.10)	645 (31.4%)
	14 years	0.67 (0.09)	8863 (77%)	0.67 (0.09)	0.67 (0.09)	3424 (64.1%)	0.67 (0.09)	0.67 (0.09)	0 (0%)
Amygdala, cm³, mean (SD)	10 years	1.76 (0.20)	7495 (84.1%)	1.76 (0.18)	1.76 (0.20)	3925 (73.5%)	1.76 (0.18)	1.76 (0.20)	645 (31.4%)
	14 years	1.79 (0.20)	8863 (77%)	1.80 (0.18)	1.80 (0.20)	3424 (64.1%)	1.80 (0.18)	1.80 (0.20)	0 (0%)
Caudate, cm³, mean (SD)	10 years	4.05 (0.50)	7495 (84.1%)	4.04 (0.46)	4.05 (0.49)	3925 (73.5%)	4.04 (0.47)	4.04 (0.50)	645 (31.4%)
	14 years	4.04 (0.48)	8863 (77%)	4.04 (0.43)	4.05 (0.47)	3424 (64.1%)	4.04 (0.44)	4.04 (0.48)	0 (0%)
Hippocampus, cm³, mean (SD)	10 years	4.02 (0.37)	7495 (84.1%)	4.02 (0.32)	4.02 (0.37)	3925 (73.5%)	4.02 (0.33)	4.01 (0.37)	645 (31.4%)
	14 years	4.16 (0.38)	8863 (77%)	4.16 (0.33)	4.17 (0.38)	3424 (64.1%)	4.17 (0.34)	4.16 (0.38)	0 (0%)
Pallidum, cm³, mean (SD)	10 years	1.96 (0.20)	7495 (84.1%)	1.96 (0.18)	1.96 (0.20)	3925 (73.5%)	1.96 (0.19)	1.95 (0.20)	645 (31.4%)
	14 years	2.04 (0.21)	8863 (77%)	2.04 (0.18)	2.04 (0.21)	3424 (64.1%)	2.04 (0.19)	2.04 (0.21)	0 (0%)
Putamen, cm³, mean (SD)	10 years	5.35 (0.56)	7495 (84.1%)	5.35 (0.50)	5.35 (0.56)	3925 (73.5%)	5.35 (0.51)	5.35 (0.56)	645 (31.4%)
	14 years	5.33 (0.55)	8863 (77%)	5.33 (0.50)	5.33 (0.56)	3424 (64.1%)	5.33 (0.51)	5.32 (0.55)	0 (0%)
Thalamus, cm³, mean (SD)	10 years	7.45 (0.68)	7495 (84.1%)	7.44 (0.57)	7.45 (0.67)	3925 (73.5%)	7.44 (0.60)	7.45 (0.67)	645 (31.4%)
	14 years	7.59 (0.72)	8863 (77%)	7.59 (0.61)	7.58 (0.72)	3424 (64.1%)	7.58 (0.64)	7.58 (0.72)	0 (0%)
Cingulate gyrus FA, mean (SD)	10 years	0.52 (0.05)	7395 (83%)	0.52 (0.05)	0.52 (0.05)	3822 (71.6%)	0.52 (0.05)	0.52 (0.05)	737 (35.9%)
	14 years	0.56 (0.03)	6609 (74.2%)	0.56 (0.03)	0.56 (0.03)	3186 (59.7%)	0.56 (0.03)	0.56 (0.03)	55 (2.7%)
Cortico-spinal tract FA, mean (SD)	10 years	0.60 (0.02)	7395 (83%)	0.60 (0.02)	0.60 (0.02)	3822 (71.6%)	0.60 (0.02)	0.60 (0.02)	737 (35.9%)
	14 years	0.60 (0.02)	6609 (74.2%)	0.60 (0.02)	0.60 (0.02)	3186 (59.7%)	0.60 (0.02)	0.60 (0.02)	55 (2.7%)
Uncinate fasciculus FA, mean (SD)	10 years	0.47 (0.04)	7388 (82.9%)	0.47 (0.03)	0.47 (0.04)	3815 (71.4%)	0.47 (0.03)	0.47 (0.04)	731 (35.6%)
	14 years	0.48 (0.02)	6609 (74.2%)	0.48 (0.02)	0.48 (0.02)	3186 (59.7%)	0.48 (0.02)	0.48 (0.02)	55 (2.7%)
Inferior longitudinal fasciculus FA, mean (SD)	10 years	0.50 (0.03)	7388 (82.9%)	0.50 (0.03)	0.50 (0.03)	3815 (71.4%)	0.50 (0.03)	0.50 (0.03)	731 (35.6%)
	14 years	0.52 (0.02)	6609 (74.2%)	0.52 (0.02)	0.52 (0.02)	3186 (59.7%)	0.52 (0.02)	0.52 (0.02)	55 (2.7%)
Superior longitudinal fasciculus FA, mean (SD)	10 years	0.47 (0.03)	7387 (82.9%)	0.48 (0.03)	0.47 (0.03)	3814 (71.4%)	0.48 (0.03)	0.48 (0.03)	730 (35.5%)
	14 years	0.48 (0.02)	6609 (74.2%)	0.48 (0.02)	0.48 (0.02)	3186 (59.7%)	0.48 (0.02)	0.48 (0.02)	55 (2.7%)
Major forceps FA, mean (SD)	10 years	0.66 (0.04)	7388 (82.9%)	0.67 (0.04)	0.66 (0.04)	3816 (71.4%)	0.67 (0.04)	0.66 (0.04)	732 (35.6%)
	14 years	0.68 (0.03)	6609 (74.2%)						

Table S2 - Correlation matrix

[illegible]

Table S3 - Main results

CAROTID INTIMA-MEDIA THICKNESS (IMT)										CAROTID DISTENSIBILITY											
		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI			Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI
Base model (R ² = .17)	Total brain volume (TBV)																				
	(Intercept)		-1.78	0.53	-3.36	294.7	0.001	0.004	-2.82	-0.74	(Intercept)		-1.85	0.52	-3.54	334.6	0.000	0.000	-2.88	-0.82	
	IMT (z-score)		0.02	0.02	1.25	77.1	0.216	0.432	-0.01	0.06	Distensibility (z-score)		0.00	0.02	0.21	107.3	0.835	0.835	-0.03	0.04	
	Female sex		-0.76	0.03	-24.87	172.2	0.000	0.000	-0.82	-0.70	Female sex		-0.77	0.03	-25.51	201.8	0.000	0.000	-0.82	-0.71	
	Age at MRI		-0.09	0.05	-1.98	315.2	0.049	0.158	-0.18	0.00	Age at MRI		-0.09	0.05	-1.97	331.7	0.050	0.164	-0.18	0.00	
	Age delta		0.09	0.04	2.22	230.5	0.027	0.108	0.01	0.18	Age delta		0.09	0.04	2.22	236.4	0.028	0.112	0.01	0.17	
	Height		0.02	0.00	9.23	209.0	0.000	0.000	0.02	0.03	Height		0.02	0.00	9.01	147.1	0.000	0.000	0.02	0.03	
Fully adjusted model (R ² = .19)	(Intercept)		-2.39	0.56	-4.27	209.1	0.000	0.000	-3.49	-1.29	(Intercept)		-2.47	0.55	-4.47	233.3	0.000	0.000	-3.56	-1.38	
	IMT (z-score)		0.03	0.02	1.46	72.8	0.149	0.397	-0.01	0.06	Distensibility (z-score)		0.01	0.02	0.37	101.1	0.712	0.835	-0.03	0.04	
	Female sex		-0.76	0.03	-25.17	169.1	0.000	0.000	-0.82	-0.70	Female sex		-0.77	0.03	-25.81	195.5	0.000	0.000	-0.82	-0.71	
	Age at MRI		-0.01	0.05	-0.13	284.8	0.894	0.894	-0.10	0.08	Age at MRI		-0.01	0.05	-0.13	291.9	0.897	0.897	-0.10	0.08	
	Age delta		0.02	0.04	0.58	224.0	0.561	0.784	-0.06	0.11	Age delta		0.02	0.04	0.58	228.4	0.564	0.795	-0.06	0.11	
	Height		0.02	0.00	7.36	259.4	0.000	0.000	0.01	0.02	Height		0.02	0.00	7.35	186.5	0.000	0.000	0.01	0.02	
	Non-European ethnicity		-0.25	0.03	-7.83	480.0	0.000	0.000	-0.31	-0.19	Non-European ethnicity		-0.25	0.03	-7.81	534.7	0.000	0.000	-0.31	-0.18	
	BMI (z-score)		0.05	0.02	3.02	202.4	0.003	0.012	0.02	0.07	BMI (z-score)		0.05	0.02	3.10	206.2	0.002	0.008	0.02	0.08	
	Parental education		0.03	0.01	3.85	147.7	0.000	0.000	0.01	0.04	Parental education		0.03	0.01	3.91	150.5	0.000	0.000	0.01	0.04	
	Maternal age		0.01	0.00	1.87	233.7	0.063	0.126	0.00	0.01	Maternal age		0.01	0.00	1.86	237.2	0.064	0.128	0.00	0.01	
Grey matter volume (GMV)																					
Base model (R ² = .17)	(Intercept)		-0.64	0.52	-1.23	354.2	0.221	0.221	-1.66	0.39	(Intercept)		-0.72	0.52	-1.38	360.1	0.167	0.167	-1.74	0.30	
	IMT (z-score)		0.03	0.02	1.48	92.7	0.143	0.397	-0.01	0.06	Distensibility (z-score)		0.00	0.02	0.21	130.7	0.835	0.835	-0.03	0.04	
	Female sex		-0.77	0.03	-24.86	157.7	0.000	0.000	-0.83	-0.71	Female sex		-0.77	0.03	-24.82	148.0	0.000	0.000	-0.83	-0.71	
	Age at MRI		-0.16	0.05	-3.24	159.7	0.001	0.008	-0.25	-0.06	Age at MRI		-0.16	0.05	-3.23	161.8	0.002	0.016	-0.25	-0.06	
	Age delta		0.11	0.05	2.25	101.1	0.027	0.108	0.01	0.20	Age delta		0.11	0.05	2.24	100.8	0.028	0.112	0.01	0.20	
	Height		0.02	0.00	8.41	194.4	0.000	0.000	0.02	0.02	Height		0.02	0.00	8.28	142.0	0.000	0.000	0.02	0.03	
	Global fractional anisotropy (FA)																				
Fully adjusted model (R ² = .20)	(Intercept)		-1.45	0.56	-2.60	206.0	0.010	0.020	-2.55	-0.35	(Intercept)		-1.54	0.56	-2.78	215.5	0.006	0.012	-2.64	-0.45	
	IMT (z-score)		0.03	0.02	1.75	87.4	0.083	0.397	0.00	0.06	Distensibility (z-score)		0.00	0.02	0.22	122.9	0.825	0.835	-0.03	0.04	
	Female sex		-0.77	0.03	-25.20	151.7	0.000	0.000	-0.83	-0.71	Female sex		-0.77	0.03	-25.18	142.9	0.000	0.000	-0.84	-0.71	
	Age at MRI		-0.06	0.05	-1.27	131.8	0.207	0.276	-0.16	0.04	Age at MRI		-0.06	0.05	-1.26	131.8	0.209	0.279	-0.16	0.04	
	Age delta		0.03	0.05	0.59	91.5	0.554	0.784	-0.07	0.12	Age delta		0.03	0.05	0.59	91.1	0.556	0.795	-0.07	0.12	
	Height		0.02	0.00	6.45	180.3	0.000	0.000	0.01	0.02	Height		0.02	0.00	6.48	140.9	0.000	0.000	0.01	0.02	
	Non-European ethnicity		-0.27	0.03	-7.89	205.1	0.000	0.000	-0.33	-0.20	Non-European ethnicity		-0.26	0.03	-7.83	210.8	0.000	0.000	-0.33	-0.20	
Fully adjusted model (R ² = .20)	BMI (z-score)		0.03	0.02	2.10	164.5	0.037	0.074	0.00	0.06	BMI (z-score)		0.03	0.02	2.18	170.3	0.031	0.062	0.00	0.06	
	Parental education		0.03	0.01	4.41	132.4	0.000	0.000	0.02	0.05	Parental education		0.03	0.01	4.48	134.3	0.000	0.000	0.02	0.05	
	Maternal age		0.01	0.00	2.25	232.5	0.025	0.100	0.00	0.01	Maternal age		0.01	0.00	2.23	231.4	0.026	0.104	0.00	0.01	
	Global fractional anisotropy (FA)																				
	Base model (R ² < .01)	(Intercept)		-1.24	0.60	-2.07	200.5	0.040	0.046	-2.43	-0.06	(Intercept)		-1.27	0.59	-2.14	227.6	0.033	0.038	-2.44	-0.10
IMT (z-score)		-0.01	0.02	-0.28	136.9	0.780	0.827	-0.04	0.03	Distensibility (z-score)		0.02	0.02	0.96	131.0	0.338	0.756	-0.02	0.05		
Female sex		-0.02	0.03	-0.68	226.4	0.499	0.509	-0.09	0.04	Female sex		-0.02	0.03	-0.73	197.5	0.465	0.476	-0.09	0.04		
Age at MRI		0.04	0.05	0.73	138.6	0.466	0.533	-0.07	0.15	Age at MRI		0.04	0.05	0.72	139.8	0.471	0.538	-0.07	0.15		
Age delta		0.03	0.05	0.55	137.7	0.581	0.784	-0.07	0.12	Age delta		0.03	0.05	0.54	139.7	0.590	0.795	-0.07	0.12		
Height		0.00	0.00	1.67	226.9	0.097	0.155	0.00	0.01	Height		0.00	0.00	1.70	159.4	0.091	0.146	0.00	0.01		
Fully adjusted model (R ² = .01)	(Intercept)		-1.68	0.62	-2.69	204.2	0.008	0.020	-2.90	-0.45	(Intercept)		-1.69	0.62	-2.75	223.3	0.006	0.012	-2.90	-0.48	
	IMT (z-score)		0.00	0.02	-0.22	132.5	0.827	0.827	-0.04	0.03	Distensibility (z-score)		0.02	0.02	0.89	142.7	0.378	0.756	-0.02	0.05	
	Female sex		-0.02	0.03	-0.66	221.9	0.509	0.509	-0.09	0.04	Female sex		-0.02	0.03	-0.71	197.8	0.476	0.476	-0.09	0.04	
	Age at MRI		0.07	0.05	1.27	150.6	0.206	0.276	-0.04	0.18	Age at MRI		0.07	0.05	1.26	150.9	0.209	0.279	-0.04	0.17	
	Age delta		0.00	0.05	0.06	141.1	0.952	0.952	-0.09	0.10	Age delta		0.00	0.05	0.05	141.9	0.962	0.962	-0.10	0.10	
	Height		0.00	0.00	1.27	222.1	0.207	0.276	0.00	0.01	Height		0.00	0.00	1.29	167.3	0.198	0.264	0.00	0.01	
	Non-European ethnicity		-0.05	0.04	-1.25	274.6	0.212	0.283	-0.12	0.03	Non-European ethnicity		-0.05	0.04	-1.28	274.3	0.200	0.267	-0.12	0.03	
Fully adjusted model (R ² = .01)	BMI (z-score)		0.00	0.02	0.04	121.6	0.969	0.969	-0.03	0.04	BMI (z-score)		0.00	0.02	0.15	129.0	0.878	0.878	-0.03	0.04	
	Parental education		0.01	0.01	1.78	270.6	0.076	0.101	0.00	0.03	Parental education		0.01	0.01	1.77	278.6	0.078	0.104	0.00	0.03	
	Maternal age		0.01	0.00	1.42	209.6	0.159	0.212	0.00	0.01	Maternal age		0.01	0.00	1.41	210.2	0.159	0.212	0.00	0.01	
	Global mean diffusivity (MD)																				
	Base model (R ² = .01)	(Intercept)		1.49	0.62	2.43	159.5	0.016	0.026	0.28	2.71	(Intercept)		1.50	0.62	2.42	150.6	0.017	0.027	0.27	2.72
IMT (z-score)		0.01	0.02	0.75	187.6	0.453	0.604	-0.02	0.05	Distensibility (z-score)		-0.02	0.02	-0.97	146.0	0.335	0.756	-0.05	0.02		
Female sex		-0.16	0.03	-5.14	300.4	0.000	0.000	-0.22	-0.10	Female sex		-0.16	0.03	-5.10	286.7	0.000	0.000	-0.22	-0.10		
Age at MRI		-0.09	0.05	-1.79	297.3	0.074	0.158	-0.19	0.01	Age at MRI		-0.09	0.05	-1.78	290.5	0.077	0.164	-0.18	0.01		
Age delta		-0.02	0.05	-0.41	169.5	0.686	0.784	-0.11	0.07	Age delta		-0.02	0.05	-0.39	166.8	0.696	0.795	-0.11	0.08		
Height		0.00	0.00	-0.27	131.1	0.791	0.904	-0.01	0.01	Height		0.00	0.00	-0.30	118.5	0.763	0.872	-0.01	0.01		
Fully adjusted model (R ² = .01)	(Intercept)		1.44	0.62	2.33	208.4	0.021	0.028	0.22	2.66	(Intercept)		1.44	0.62	2.30	194.7	0.022	0.029	0.21	2.66	
	IMT (z-score)		0.01	0.02	0.80	193.0	0.427	0.604	-0.02	0.05	Distensibility (z-score)		-0.02	0.02	-1.15	158.1	0.251	0.756	-0.05	0.01	
	Female sex		-0.16	0.03	-5.15	283.8	0.000	0.000	-0.23	-0.10	Female sex		-0.16	0.03	-5.11	272.5	0.000	0.000	-0.22	-0.10	
	Age at MRI		-0.09	0.05	-1.76	361.0	0.079	0.158	-0.18	0.01	Age at MRI		-0.09	0.05	-1.75	351.6	0.082	0.164	-0.18	0.01	
	Age delta		-0.02	0.05	-0.43	195.5	0.671	0.784	-0.11	0.07	Age delta		-0.02	0.05	-0.41	192.2	0.686	0.795	-0.11	0.07	
	Height		0.00	0.00	-0.02	152.8	0.981	0.981	-0.01	0.01	Height		0.00	0.00	-0.05	135.7	0.960	0.960	-0.01	0.01	
	Non-European ethnicity		-0.01	0.04	-0.24	209.1	0.809	0.809	-0.08	0.07	Non-European ethnicity		-0.01	0.04	-0.18	211.6	0.858	0.858	-0.08	0.07	
	BMI (z-score)		-0.02	0.02	-1.08	109.6	0.282	0.376	-0.06	0.02	BMI (z-score)		-0.02	0.02	-1.22	117.4	0.226	0.301	-0.06	0.01	
	Parental education		0.00	0.01	0.22	127.5	0.823	0.823	-0.02	0.02	Parental education		0.00	0.01	0.26	127.9	0.797	0.797	-0.01	0.02	
	Maternal age		0.00	0.00	-0.58	168.2	0.560	0.560	-0.01	0.01	Maternal age		0.00	0.00	-0.59	167.4	0.559	0.559	-0.01	0.01	

Table S3 - Main results (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)										DIASTOLIC BLOOD PRESSURE (DBP)											
		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI			Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI
Base model (R ² = .17)	Total brain volume (TBV)										Base model (R ² = .17)	Total brain volume (TBV)									
	(Intercept)	-2.06	0.53	-3.87	303.4	0.000	0.000	-3.11	-1.01	(Intercept)		-1.92	0.52	-3.70	348.4	0.000	0.000	-2.94	-0.90		
	SBP (z-score)	-0.04	0.02	-2.45	167.9	0.015	0.030	-0.07	-0.01	DBP (z-score)		-0.05	0.02	-3.32	276.5	0.001	0.004	-0.08	-0.02		
	Female sex	-0.76	0.03	-25.18	186.3	0.000	0.000	-0.82	-0.70	Female sex		-0.76	0.03	-25.17	191.6	0.000	0.000	-0.82	-0.70		
	Age at MRI	-0.09	0.05	-1.90	307.1	0.059	0.162	-0.17	0.00	Age at MRI		-0.08	0.05	-1.88	321.8	0.061	0.162	-0.17	0.00		
	Age delta	0.09	0.04	2.11	230.6	0.036	0.144	0.01	0.17	Age delta		0.09	0.04	2.09	229.9	0.038	0.152	0.01	0.17		
	Height	0.02	0.00	9.74	197.1	0.000	0.000	0.02	0.03	Height		0.02	0.00	9.45	180.8	0.000	0.000	0.02	0.03		
Fully adjusted model (R ² = .19)	(Intercept)	-2.61	0.56	-4.67	214.2	0.000	0.000	-3.72	-1.51	(Intercept)	-2.48	0.55	-4.50	237.0	0.000	0.000	-3.57	-1.40			
	SBP (z-score)	-0.04	0.02	-2.52	227.5	0.013	0.030	-0.07	-0.01	DBP (z-score)	-0.04	0.02	-2.58	240.8	0.011	0.022	-0.07	-0.01			
	Female sex	-0.76	0.03	-25.43	182.4	0.000	0.000	-0.82	-0.70	Female sex	-0.76	0.03	-25.48	186.1	0.000	0.000	-0.82	-0.70			
	Age at MRI	0.00	0.05	-0.10	275.7	0.924	0.924	-0.09	0.09	Age at MRI	-0.01	0.05	-0.10	292.6	0.920	0.920	-0.09	0.08			
	Age delta	0.02	0.04	0.50	223.4	0.618	0.757	-0.06	0.10	Age delta	0.02	0.04	0.52	225.8	0.602	0.753	-0.06	0.10			
	Height	0.02	0.00	7.86	231.3	0.000	0.000	0.01	0.02	Height	0.02	0.00	7.57	224.1	0.000	0.000	0.01	0.02			
	Non-European ethnicity	-0.25	0.03	-7.87	567.4	0.000	0.000	-0.31	-0.18	Non-European ethnicity	-0.24	0.03	-7.78	571.5	0.000	0.000	-0.30	-0.18			
	BMI (z-score)	0.06	0.02	3.82	287.7	0.000	0.000	0.03	0.09	BMI (z-score)	0.05	0.02	3.30	201.5	0.001	0.004	0.02	0.08			
	Parental education	0.03	0.01	3.78	151.1	0.000	0.000	0.01	0.04	Parental education	0.03	0.01	3.73	143.3	0.000	0.000	0.01	0.04			
Maternal age	0.01	0.00	1.87	234.8	0.063	0.126	0.00	0.01	Maternal age	0.01	0.00	1.79	229.3	0.074	0.148	0.00	0.01				
Grey matter volume (GMV)										Grey matter volume (GMV)											
Base model (R ² = .17)	(Intercept)	-0.99	0.52	-1.91	387.5	0.058	0.058	-2.02	0.03	(Intercept)	-0.80	0.51	-1.57	438.0	0.117	0.117	-1.81	0.20			
	SBP (z-score)	-0.05	0.02	-3.03	125.3	0.003	0.024	-0.08	-0.02	DBP (z-score)	-0.06	0.02	-3.48	132.6	0.001	0.004	-0.09	-0.02			
	Female sex	-0.77	0.03	-24.66	146.8	0.000	0.000	-0.83	-0.71	Female sex	-0.76	0.03	-24.41	139.5	0.000	0.000	-0.83	-0.70			
	Age at MRI	-0.15	0.05	-3.14	156.7	0.002	0.016	-0.25	-0.06	Age at MRI	-0.15	0.05	-3.15	164.4	0.002	0.016	-0.25	-0.06			
	Age delta	0.10	0.05	2.12	101.5	0.036	0.144	0.01	0.19	Age delta	0.10	0.05	2.13	104.1	0.036	0.152	0.01	0.19			
	Height	0.02	0.00	8.97	160.3	0.000	0.000	0.02	0.03	Height	0.02	0.00	8.65	164.6	0.000	0.000	0.02	0.03			
	Fully adjusted model (R ² = .20)	(Intercept)	-1.70	0.56	-3.06	217.0	0.003	0.008	-2.80	-0.61	(Intercept)	-1.55	0.55	-2.82	228.3	0.005	0.013	-2.64	-0.47		
SBP (z-score)		-0.05	0.02	-2.62	122.5	0.010	0.030	-0.08	-0.01	DBP (z-score)	-0.04	0.02	-2.59	127.4	0.011	0.022	-0.07	-0.01			
Female sex		-0.77	0.03	-24.86	137.0	0.000	0.000	-0.83	-0.71	Female sex	-0.77	0.03	-24.68	130.9	0.000	0.000	-0.83	-0.71			
Age at MRI		-0.06	0.05	-1.23	128.9	0.223	0.297	-0.16	0.04	Age at MRI	-0.06	0.05	-1.24	133.6	0.218	0.291	-0.16	0.04			
Age delta		0.02	0.05	0.51	91.5	0.611	0.757	-0.07	0.12	Age delta	0.03	0.05	0.54	93.5	0.592	0.753	-0.07	0.12			
Height		0.02	0.00	7.00	161.7	0.000	0.000	0.01	0.02	Height	0.02	0.00	6.66	155.3	0.000	0.000	0.01	0.02			
Non-European ethnicity		-0.26	0.03	-7.89	216.8	0.000	0.000	-0.33	-0.20	Non-European ethnicity	-0.26	0.03	-7.79	215.4	0.000	0.000	-0.33	-0.20			
BMI (z-score)		0.05	0.02	2.87	152.0	0.005	0.010	0.01	0.08	BMI (z-score)	0.04	0.02	2.41	163.8	0.017	0.034	0.01	0.07			
Parental education		0.03	0.01	4.37	142.1	0.000	0.000	0.02	0.05	Parental education	0.03	0.01	4.35	141.1	0.000	0.000	0.02	0.05			
Maternal age	0.01	0.00	2.24	229.8	0.026	0.104	0.00	0.01	Maternal age	0.01	0.00	2.16	226.5	0.031	0.124	0.00	0.01				
Global fractional anisotropy (FA)										Global fractional anisotropy (FA)											
Base model (R ² < .01)	(Intercept)	-1.25	0.60	-2.08	222.1	0.039	0.045	-2.43	-0.07	(Intercept)	-1.24	0.60	-2.08	216.8	0.039	0.045	-2.41	-0.07			
	SBP (z-score)	0.00	0.02	-0.22	131.4	0.828	0.876	-0.04	0.03	DBP (z-score)	-0.01	0.02	-0.32	114.7	0.754	0.862	-0.04	0.03			
	Female sex	-0.02	0.03	-0.63	199.1	0.533	0.533	-0.09	0.04	Female sex	-0.02	0.03	-0.61	198.4	0.540	0.540	-0.09	0.05			
	Age at MRI	0.04	0.05	0.73	140.5	0.464	0.530	-0.07	0.15	Age at MRI	0.04	0.05	0.74	139.4	0.461	0.527	-0.07	0.15			
	Age delta	0.03	0.05	0.54	133.9	0.588	0.757	-0.07	0.12	Age delta	0.03	0.05	0.54	136.8	0.590	0.753	-0.07	0.12			
	Height	0.00	0.00	1.65	219.2	0.101	0.162	0.00	0.01	Height	0.00	0.00	1.63	197.7	0.104	0.166	0.00	0.01			
Fully adjusted model (R ² = .01)	(Intercept)	-1.66	0.62	-2.67	216.7	0.008	0.016	-2.88	-0.43	(Intercept)	-1.67	0.62	-2.70	217.9	0.007	0.014	-2.88	-0.45			
	SBP (z-score)	0.00	0.02	0.16	137.0	0.876	0.876	-0.03	0.04	DBP (z-score)	0.00	0.02	0.03	109.5	0.975	0.975	-0.04	0.04			
	Female sex	-0.02	0.03	-0.64	193.3	0.522	0.533	-0.09	0.04	Female sex	-0.02	0.03	-0.63	194.3	0.527	0.540	-0.09	0.04			
	Age at MRI	0.07	0.05	1.27	152.0	0.207	0.297	-0.04	0.17	Age at MRI	0.07	0.05	1.27	150.9	0.206	0.291	-0.04	0.18			
	Age delta	0.00	0.05	0.07	137.0	0.947	0.947	-0.09	0.10	Age delta	0.00	0.05	0.06	140.1	0.952	0.952	-0.09	0.10			
	Height	0.00	0.00	1.20	214.2	0.233	0.311	0.00	0.01	Height	0.00	0.00	1.23	197.4	0.220	0.293	0.00	0.01			
	Non-European ethnicity	-0.05	0.04	-1.26	278.9	0.208	0.277	-0.12	0.03	Non-European ethnicity	-0.05	0.04	-1.26	271.9	0.208	0.277	-0.12	0.03			
	BMI (z-score)	0.00	0.02	-0.02	119.5	0.987	0.987	-0.04	0.04	BMI (z-score)	0.00	0.02	0.03	113.7	0.978	0.978	-0.04	0.04			
	Parental education	0.01	0.01	1.79	286.4	0.075	0.100	0.00	0.03	Parental education	0.01	0.01	1.77	273.1	0.078	0.104	0.00	0.03			
Maternal age	0.01	0.00	1.42	211.7	0.157	0.209	0.00	0.01	Maternal age	0.01	0.00	1.43	220.2	0.156	0.208	0.00	0.01				
Global mean diffusivity (MD)										Global mean diffusivity (MD)											
Base model (R ² = .01)	(Intercept)	1.38	0.61	2.24	176.0	0.026	0.037	0.17	2.59	(Intercept)	1.43	0.62	2.32	151.7	0.022	0.035	0.21	2.65			
	SBP (z-score)	-0.01	0.02	-0.81	135.4	0.420	0.672	-0.05	0.02	DBP (z-score)	-0.02	0.02	-0.97	176.0	0.334	0.534	-0.05	0.02			
	Female sex	-0.16	0.03	-5.18	305.1	0.000	0.000	-0.22	-0.10	Female sex	-0.16	0.03	-5.11	276.8	0.000	0.000	-0.22	-0.10			
	Age at MRI	-0.09	0.05	-1.77	296.2	0.079	0.162	-0.18	0.01	Age at MRI	-0.09	0.05	-1.76	295.3	0.079	0.162	-0.18	0.01			
	Age delta	-0.02	0.05	-0.44	165.2	0.660	0.757	-0.11	0.07	Age delta	-0.02	0.05	-0.44	170.3	0.659	0.753	-0.11	0.07			
	Height	0.00	0.00	0.02	146.7	0.988	0.988	-0.01	0.01	Height	0.00	0.00	0.14	122.4	0.891	0.932	-0.01	0.01			
Fully adjusted model (R ² = .01)	(Intercept)	1.37	0.62	2.21	212.9	0.028	0.037	0.15	2.59	(Intercept)	1.40	0.62	2.25	195.3	0.026	0.035	0.17	2.62			
	SBP (z-score)	-0.01	0.02	-0.44	134.0	0.662	0.876	-0.05	0.03	DBP (z-score)	-0.01	0.02	-0.81	161.4	0.417	0.596	-0.05	0.02			
	Female sex	-0.16	0.03	-5.22	292.8	0.000	0.000	-0.23	-0.10	Female sex	-0.16	0.03	-5.14	263.9	0.000	0.000	-0.23	-0.10			
	Age at MRI	-0.09	0.05	-1.75	354.3	0.081	0.162	-0.18	0.01	Age at MRI	-0.09	0.05	-1.75	354.0	0.081	0.162	-0.18	0.01			
	Age delta	-0.02	0.05	-0.44	188.9	0.662	0.757	-0.11	0.07	Age delta	-0.02	0.05	-0.44	195.0	0.659	0.753	-0.11	0.07			
	Height	0.00	0.00	0.14	154.3	0.888	0.988	-0.01	0.01	Height	0.00	0.00	0.09	144.1	0.932	0.932	-0.01	0.01			
	Non-European ethnicity	-0.01	0.04	-0.21	204.9	0.833	0.833	-0.08	0.07	Non-European ethnicity	-0.01	0.04	-0.19	202.4	0.852	0.852	-0.08	0.07			
	BMI (z-score)	-0.02	0.02	-0.88	110.7	0.382	0.509	-0.05	0.02	BMI (z-score)	-0.02	0.02	-0.97	105.1	0.333	0.444	-0.05	0.02			
	Parental education	0.00	0.01	0.22	126.4	0.823	0.823	-0.02	0.02	Parental education	0.00	0.01	0.20	128.4	0.842	0.842	-0.02	0.02			
Maternal age	0.00	0.00	-0.59	169.0	0.556	0.556	-0.01	0.01	Maternal age	0.00	0.00	-0.61	168.8	0.543	0.543	-0.01	0.01				

Table S4 - Linear mixed model results (with age interaction)

CAROTID INTIMA-MEDIA THICKNESS (IMT)												
Base model	Total brain volume (TBV)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	121038.4	
	(Intercept)	885.71	29.63	29.89	193.70	827.27	944.14	0.000	0.000			
	Age	7.01	0.34	20.75	48.90	6.34	7.69	0.000	0.000			Random effect SD 79.0
	IMT (z-score)	3.94	4.16	0.95	60.81	-4.38	12.25	0.347	0.780			
	Female sex	-68.61	2.72	-25.20	238.20	-73.97	-63.25	0.000	0.000			
	Height	1.94	0.21	9.45	222.31	1.53	2.34	0.000	0.000			
	Age * IMT (z-score)	-0.13	0.30	-0.44	71.82	-0.72	0.46	0.662	0.874			
Fully adjusted model	Total brain volume (TBV)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	120871.2	
	(Intercept)	886.42	31.45	28.50	185.41	834.38	958.47	0.000	0.000			
	Age	7.03	0.34	20.85	49.22	6.35	7.71	0.000	0.000			Random effect SD 77.5
	IMT (z-score)	4.31	4.15	1.04	60.71	-3.98	12.60	0.303	0.780			
	Female sex	-68.75	2.68	-25.63	236.75	-74.03	-63.46	0.000	0.000			
	Height	1.63	0.21	7.94	263.79	1.22	2.03	0.000	0.000			
	Non-European ethnicity	-23.38	3.14	-7.44	185.47	-29.58	-17.18	0.000	0.000			
	BMI (z-score)	4.16	1.35	3.08	236.21	1.50	6.82	0.002	0.005			
Parental education	2.74	0.69	3.96	131.91	1.37	4.11	0.000	0.000				
Maternal age	0.50	0.27	1.85	336.24	-0.03	1.03	0.066	0.231				
Age * IMT (z-score)	-0.13	0.30	-0.44	72.11	-0.72	0.46	0.661	0.874				
Base model	Grey matter volume (GMV)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	110967.6	
	(Intercept)	625.25	17.70	35.32	173.65	590.31	660.19	0.000	0.000			
	Age	-0.61	0.20	-3.04	68.24	-1.01	-0.21	0.003	0.004			Random effect SD 45.7
	IMT (z-score)	2.91	2.33	1.25	113.06	-1.71	7.53	0.215	0.780			
	Female sex	-40.49	1.66	-24.35	172.02	-43.77	-37.21	0.000	0.000			
	Height	1.08	0.12	8.64	169.55	0.83	1.32	0.000	0.000			
	Age * IMT (z-score)	-0.11	0.18	-0.60	113.68	-0.46	0.25	0.551	0.874			
Fully adjusted model	Grey matter volume (GMV)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	110762.1	
	(Intercept)	626.37	19.01	32.95	148.63	588.80	663.94	0.000	0.000			
	Age	-0.59	0.20	-2.98	68.66	-0.99	-0.20	0.004	0.005			Random effect SD 44.6
	IMT (z-score)	3.19	2.34	1.36	109.91	-1.45	7.82	0.176	0.780			
	Female sex	-40.61	1.64	-24.76	164.33	-43.85	-37.37	0.000	0.000			
	Height	0.91	0.13	7.07	147.89	0.65	1.16	0.000	0.000			
	Non-European ethnicity	-14.88	1.89	-7.87	152.89	-18.62	-11.15	0.000	0.000			
	BMI (z-score)	1.78	0.81	2.21	198.09	0.19	3.37	0.028	0.044			
Parental education	1.78	0.42	4.28	113.79	0.96	2.60	0.000	0.000				
Maternal age	0.36	0.17	2.21	210.92	0.04	0.69	0.028	0.203				
Age * IMT (z-score)	-0.11	0.18	-0.60	111.61	-0.46	0.25	0.550	0.874				
Base model	Global fractional anisotropy (FA)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	54498.0	
	(Intercept)	0.50	0.01	85.37	167.08	0.49	0.51	0.000	0.000			
	Age	0.00	0.00	21.68	52.60	0.00	0.00	0.000	0.000			Random effect SD 0.0
	IMT (z-score)	0.00	0.00	-0.32	152.87	0.00	0.00	0.752	0.856			
	Female sex	0.00	0.00	-0.35	218.65	0.00	0.00	0.727	0.727			
	Height	0.00	0.00	1.92	173.91	0.00	0.00	0.057	0.064			
	Age * IMT (z-score)	0.00	0.00	0.22	169.13	0.00	0.00	0.829	0.874			
Fully adjusted model	Global fractional anisotropy (FA)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	54512.7	
	(Intercept)	0.50	0.01	77.93	144.20	0.48	0.51	0.000	0.000			
	Age	0.00	0.00	21.72	52.65	0.00	0.00	0.000	0.000			Random effect SD 0.0
	IMT (z-score)	0.00	0.00	-0.29	154.31	0.00	0.00	0.769	0.856			
	Female sex	0.00	0.00	-0.37	221.04	0.00	0.00	0.714	0.727			
	Height	0.00	0.00	1.58	170.24	0.00	0.00	0.116	0.125			
	Non-European ethnicity	0.00	0.00	-1.88	198.56	0.00	0.00	0.062	0.067			
	BMI (z-score)	0.00	0.00	0.16	234.30	0.00	0.00	0.874	0.874			
Parental education	0.00	0.00	1.74	168.22	0.00	0.00	0.083	0.097				
Maternal age	0.00	0.00	1.11	151.18	0.00	0.00	0.268	0.451				
Age * IMT (z-score)	0.00	0.00	0.21	170.62	0.00	0.00	0.831	0.874				
Base model	Global mean diffusivity (MD)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	57225.0	
	(Intercept)	0.87	0.01	124.96	66.76	0.85	0.88	0.000	0.000			
	Age	-0.01	0.00	-53.00	71.89	-0.01	0.00	0.000	0.000			Random effect SD 0.0
	IMT (z-score)	0.00	0.00	0.67	68.44	0.00	0.00	0.506	0.780			
	Female sex	0.00	0.00	-6.94	610.34	0.00	0.00	0.000	0.000			
	Height	0.00	0.00	0.12	73.33	0.00	0.00	0.902	0.902			
	Age * IMT (z-score)	0.00	0.00	-0.46	75.80	0.00	0.00	0.646	0.874			
Fully adjusted model	Global mean diffusivity (MD)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	57221.4	
	(Intercept)	0.87	0.01	125.28	89.66	0.85	0.88	0.000	0.000			
	Age	-0.01	0.00	-53.04	72.08	-0.01	0.00	0.000	0.000			Random effect SD 0.0
	IMT (z-score)	0.00	0.00	0.68	69.35	0.00	0.00	0.500	0.780			
	Female sex	0.00	0.00	-6.98	604.48	0.00	0.00	0.000	0.000			
	Height	0.00	0.00	0.36	84.83	0.00	0.00	0.721	0.748			
	Non-European ethnicity	0.00	0.00	0.23	278.57	0.00	0.00	0.815	0.815			
	BMI (z-score)	0.00	0.00	-0.90	99.17	0.00	0.00	0.372	0.434			
Parental education	0.00	0.00	0.05	194.61	0.00	0.00	0.958	0.958				
Maternal age	0.00	0.00	-1.00	325.24	0.00	0.00	0.320	0.451				
Age * IMT (z-score)	0.00	0.00	-0.47	75.92	0.00	0.00	0.642	0.874				
Base model	Global fractional anisotropy (FA)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	54499.1	
	(Intercept)	0.50	0.01	83.74	146.98	0.49	0.51	0.000	0.000			
	Age	0.00	0.00	21.61	52.24	0.00	0.00	0.000	0.000			Random effect SD 0.0
	Distensibility (z-score)	0.00	0.00	-0.27	86.71	0.00	0.00	0.792	1.000			
	Female sex	0.00	0.00	-0.37	232.71	0.00	0.00	0.712	0.712			
	Height	0.00	0.00	1.90	140.96	0.00	0.00	0.059	0.066			
	Age * Distens. (z-score)	0.00	0.00	0.44	106.99	0.00	0.00	0.665	0.985			
Fully adjusted model	Global fractional anisotropy (FA)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	54513.7	
	(Intercept)	0.50	0.01	77.13	132.73	0.48	0.51	0.000	0.000			
	Age	0.00	0.00	21.66	52.31	0.00	0.00	0.000	0.000			Random effect SD 0.0
	Distensibility (z-score)	0.00	0.00	-0.28	87.52	0.00	0.00	0.778	1.000			
	Female sex	0.00	0.00	-0.39	236.06	0.00	0.00	0.699	0.712			
	Height	0.00	0.00	1.57	144.85	0.00	0.00	0.118	0.127			
	Non-European ethnicity	0.00	0.00	-1.91	197.47	0.00	0.00	0.057	0.061			
	BMI (z-score)	0.00	0.00	0.24	258.43	0.00	0.00	0.813	0.813			
Parental education	0.00	0.00	1.74	176.06	0.00	0.00	0.085	0.092				
Maternal age	0.00	0.00	1.11	150.87	0.00	0.00	0.268	0.459				
Age * Distens. (z-score)	0.00	0.00	0.44	107.57	0.00	0.00	0.663	0.985				
Base model	Global mean diffusivity (MD)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	57225.0	
	(Intercept)	0.87	0.01	122.63	63.02	0.85	0.88	0.000	0.000			
	Age	-0.01	0.00	-53.03	72.14	-0.01	0.00	0.000	0.000			Random effect SD 0.0
	Distensibility (z-score)	0.00	0.00	-0.65	71.81	0.00	0.00	0.520	1.000			
	Female sex	0.00	0.00	-6.95	620.08	0.00	0.00	0.000	0.000			
	Height	0.00	0.00	0.11	67.91	0.00	0.00	0.913	0.913			
	Age * Distens. (z-score)	0.00	0.00	0.43	78.10	0.00	0.00	0.666	0.985			
Fully adjusted model	Global mean diffusivity (MD)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	57221.7	
	(Intercept)	0.87	0.01	123.35	82.84	0.85	0.88	0.000	0.000			
	Age	-0.01	0.00	-53.06	72.30	-0.01	0.00	0.000	0.000			Random effect SD 0.0
	Distensibility (z-score)	0.00	0.00	-0.69	74.08	0.00	0.00	0.494	1.000			
	Female sex	0.00	0.00	-6.98	611.22	0.00	0.00	0.000	0.000			
	Height	0.00	0.00	0.35	77.58	0.00	0.00	0.725	0.752			
	Non-European ethnicity	0.00	0.00	0.31	257.44	0.00	0.00	0.759	0.759			
	BMI (z-score)	0.00	0.00	-1.01	103.62	0.00	0.00	0.314	0.400			
Parental education	0.00	0.00	0.09	193.42	0.00	0.00	0.928	0.928				
Maternal age	0.00	0.00	-1.00	321.06	0.00	0.00	0.320	0.459				
Age * Distens. (z-score)	0.00	0.00	0.44	78.37	0.00	0.00	0.665	0.985				

Table S4 - Linear mixed model results (with age interaction) (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)												
Base model	Total brain volume (TBV)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	121034.1
	(Intercept)	860.52	30.56	28.16	184.11	800.22	920.82	0.000	0.000			
	Age	7.01	0.34	20.75	48.88	6.34	7.69	0.000	0.000	Random effect SD	78.9	
	SBP (z-score)	-1.47	3.61	-0.41	115.50	-8.62	5.68	0.685	0.967			
	Female sex	-68.63	2.70	-25.46	255.38	-73.94	-63.33	0.000	0.000			
	Height	2.11	0.21	9.95	197.56	1.70	2.53	0.000	0.000			
	Age * SBP (z-score)	-0.17	0.28	-0.62	91.32	-0.73	0.38	0.538	0.958			
	Fixed effects										Model info	
Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	120869.2	
(Intercept)	875.91	32.02	27.36	172.61	812.71	939.11	0.000	0.000				
Age	7.03	0.34	20.84	49.17	6.35	7.71	0.000	0.000	Random effect SD	77.5		
SBP (z-score)	-1.53	3.65	-0.42	113.31	-8.76	5.70	0.676	0.967				
Female sex	-68.77	2.66	-25.83	250.30	-74.02	-63.53	0.000	0.000				
Height	1.77	0.21	8.42	223.21	1.36	2.19	0.000	0.000				
Non-European ethnicity	-23.17	3.11	-7.46	204.64	-29.29	-17.05	0.000	0.000				
BMI (z-score)	5.31	1.37	3.86	339.95	2.61	8.01	0.000	0.000				
Parental education	2.69	0.69	3.89	131.89	1.32	4.06	0.000	0.000				
Maternal age	0.49	0.27	1.84	336.05	-0.04	1.02	0.067	0.235				
Age * SBP (z-score)	-0.17	0.28	-0.60	91.13	-0.73	0.39	0.548	0.958				
Grey matter volume (GMV)												
Base model	Fixed effects											
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	110957.4
	(Intercept)	606.67	18.87	32.15	130.56	569.34	644.01	0.000	0.000			
	Age	-0.61	0.20	-3.04	68.15	-1.01	-0.21	0.003	0.004	Random effect SD	45.7	
	SBP (z-score)	-0.40	2.29	-0.17	129.80	-4.94	4.14	0.862	0.967			
	Female sex	-40.48	1.65	-24.54	178.45	-43.74	-37.23	0.000	0.000			
	Height	1.21	0.13	9.06	124.45	0.94	1.47	0.000	0.000			
	Age * SBP (z-score)	-0.19	0.18	-1.03	96.63	-0.55	0.18	0.306	0.958			
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	110758.3
(Intercept)	612.52	19.76	31.00	122.20	573.41	651.64	0.000	0.000				
Age	-0.59	0.20	-2.98	68.59	-0.99	-0.20	0.004	0.005	Random effect SD	44.6		
SBP (z-score)	-0.13	2.33	-0.06	122.95	-4.73	4.48	0.956	0.967				
Female sex	-40.65	1.64	-24.85	165.66	-43.88	-37.42	0.000	0.000				
Height	1.01	0.13	7.51	119.97	0.74	1.27	0.000	0.000				
Non-European ethnicity	-14.73	1.87	-7.87	163.82	-18.43	-11.04	0.000	0.000				
BMI (z-score)	2.55	0.83	3.06	237.37	0.91	4.19	0.002	0.004				
Parental education	1.75	0.41	4.24	119.50	0.93	2.56	0.000	0.000				
Maternal age	0.36	0.17	2.19	206.94	0.04	0.69	0.029	0.210				
Age * SBP (z-score)	-0.19	0.18	-1.01	97.02	-0.55	0.18	0.313	0.958				
Global fractional anisotropy (FA)												
Base model	Fixed effects											
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	-54499.3
	(Intercept)	0.50	0.01	85.47	206.09	0.49	0.51	0.000	0.000			
	Age	0.00	0.00	21.68	52.61	0.00	0.00	0.000	0.000	Random effect SD	0.0	
	SBP (z-score)	0.00	0.00	0.99	145.20	0.00	0.00	0.323	0.967			
	Female sex	0.00	0.00	-0.31	208.96	0.00	0.00	0.758	0.758			
	Height	0.00	0.00	1.82	195.50	0.00	0.00	0.071	0.080			
	Age * SBP (z-score)	0.00	0.00	-1.03	182.36	0.00	0.00	0.307	0.958			
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	-54514.5
(Intercept)	0.50	0.01	78.68	163.06	0.48	0.51	0.000	0.000				
Age	0.00	0.00	21.72	52.64	0.00	0.00	0.000	0.000	Random effect SD	0.0		
SBP (z-score)	0.00	0.00	1.09	140.92	0.00	0.00	0.279	0.967				
Female sex	0.00	0.00	-0.37	212.23	0.00	0.00	0.712	0.738				
Height	0.00	0.00	1.44	185.21	0.00	0.00	0.153	0.165				
Non-European ethnicity	0.00	0.00	-1.89	199.22	0.00	0.00	0.060	0.065				
BMI (z-score)	0.00	0.00	-0.40	260.00	0.00	0.00	0.970	0.970				
Parental education	0.00	0.00	1.77	180.97	0.00	0.00	0.078	0.091				
Maternal age	0.00	0.00	1.11	153.45	0.00	0.00	0.267	0.459				
Age * SBP (z-score)	0.00	0.00	-1.02	181.19	0.00	0.00	0.310	0.958				
Global mean diffusivity (MD)												
Base model	Fixed effects											
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	-57224.2
	(Intercept)	0.86	0.01	123.64	70.95	0.85	0.88	0.000	0.000			
	Age	-0.01	0.00	-53.06	72.20	-0.01	0.00	0.000	0.000	Random effect SD	0.0	
	SBP (z-score)	0.00	0.00	-0.15	68.63	0.00	0.00	0.885	0.967			
	Female sex	0.00	0.00	-6.98	561.42	0.00	0.00	0.000	0.000			
	Height	0.00	0.00	0.40	78.46	0.00	0.00	0.690	0.690			
	Age * SBP (z-score)	0.00	0.00	-0.05	68.97	0.00	0.00	0.958	0.958			
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	-57220.1
(Intercept)	0.86	0.01	123.70	88.90	0.85	0.88	0.000	0.000				
Age	-0.01	0.00	-53.10	72.43	-0.01	0.00	0.000	0.000	Random effect SD	0.0		
SBP (z-score)	0.00	0.00	-0.10	72.84	0.00	0.00	0.925	0.967				
Female sex	0.00	0.00	-7.03	577.49	0.00	0.00	0.000	0.000				
Height	0.00	0.00	0.55	83.55	0.00	0.00	0.585	0.607				
Non-European ethnicity	0.00	0.00	0.28	260.20	0.00	0.00	0.784	0.794				
BMI (z-score)	0.00	0.00	-0.68	106.53	0.00	0.00	0.498	0.581				
Parental education	0.00	0.00	0.05	185.92	0.00	0.00	0.958	0.958				
Maternal age	0.00	0.00	-1.00	323.69	0.00	0.00	0.317	0.459				
Age * SBP (z-score)	0.00	0.00	-0.06	69.08	0.00	0.00	0.956	0.958				

DIASTOLIC BLOOD PRESSURE (DBP)												
Base model	Total brain volume (TBV)											
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	121028.0
	(Intercept)	874.31	29.84	29.30	172.59	815.42	933.21	0.000	0.000			
	Age	7.02	0.34	20.77	48.99	6.34	7.69	0.000	0.000	Random effect SD	78.9	
	DBP (z-score)	-2.35	3.74	-0.63	93.49	-9.77	5.06	0.530	0.978			
	Female sex	-68.41	2.69	-25.45	264.20	-73.70	-63.11	0.000	0.000			
	Height	2.02	0.21	9.75	190.98	1.61	2.42	0.000	0.000			
	Age * DBP (z-score)	-0.18	0.27	-0.64	104.57	-0.72	0.37	0.524	0.949			
	Fixed effects										Model info	
Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	120868.7	
(Intercept)	887.89	31.58	28.12	169.86	825.55	950.22	0.000	0.000				
Age	7.03	0.34	20.87	49.29	6.35	7.71	0.000	0.000	Random effect SD	77.5		
DBP (z-score)	-1.36	3.71	-0.37	95.63	-8.73	6.02	0.716	0.978				
Female sex	-68.74	2.66	-25.89	257.70	-73.97	-63.51	0.000	0.000				
Height	1.69	0.21	8.20	227.11	1.29	2.10	0.000	0.000				
Non-European ethnicity	-22.91	3.11	-7.38	204.04	-29.04	-16.79	0.000	0.000				
BMI (z-score)	4.57	1.35	3.38	239.81	1.90	7.24	0.001	0.002				
Parental education	2.68	0.69	3.86	130.08	1.31	4.05	0.000	0.000				
Maternal age	0.48	0.27	1.76	330.71	-0.06	1.00	0.079	0.276				
Age * DBP (z-score)	-0.17	0.28	-0.62	103.30	-0.71	0.38	0.539	0.949				
Grey matter volume (GMV)												
Base model	Fixed effects											
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	110953.5
	(Intercept)	617.50	18.04	34.24	143.26	581.85	653.15	0.000	0.000			
	Age	-0.61	0.20	-3.04	68.21	-1.00	-0.21	0.003	0.004	Random effect SD	45.6	
	DBP (z-score)	-1.30	2.29	-0.57	129.07	-5.63	3.24	0.572	0.967			
	Female sex	-40.36	1.66	-24.36	172.69	-43.83	-37.00	0.000	0.000			
	Height	1.13	0.13	8.89	137.65	0.88	1.38	0.000	0.000			
	Age * DBP (z-score)	-0.14	0.18	-0.76	95.39	-0.51	0.23	0.448	0.949			
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	110759.4
(Intercept)	620.53	19.38	32.02	125.11	582.18	658.88	0.000	0.000				
Age	-0.59	0.20	-2.97	68.53	-0.99	-0.20	0.004	0.005	Random effect SD	44.6		
DBP (z-score)	-0.54	2.28	-0.24	131.12	-5.05	3.96	0.811	0.978				
Female sex	-40.64	1.64	-24.72	159.67	-43.88	-37.39	0.000	0.000				
Height	0.95	0.13	7.26	122.58	0.69	1.21	0.000	0.000				
Non-European ethnicity	-14.57	1.88	-7.77	161.17	-18.27	-10.86	0.000	0.000				
BMI (z-score)	2.05	0.81	2.54	209.16	0.46	3.64	0.012	0.019				
Parental education	1.74	0.41	4.23	120.60	0.93	2.56	0.000	0.000				
Maternal age	0.35	0.17	2.12	200.23	0.02	0.68	0.036	0.252				
Age * DBP (z-score)	-0.14	0.19	-0.73	94.48	-0.50	0.23	0.465	0.949				
Global fractional anisotropy (FA)												
Base model	Fixed effects											
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	-54498.3
	(Intercept)	0.50	0.01	85.75	180.81	0.49	0.51	0.000	0.000			
	Age	0.00	0.00	21.68	52.62	0.00	0.00	0.000	0.000	Random effect SD	0.0	
	DBP (z-score)	0.00	0.00	0.22	97.83	0.00	0.00	0.830	0.978			
	Female sex	0.00	0.00	-1.28	209.22	0.00	0.00	0.780	0.780			
	Height	0.00	0.00	1.90	183.75	0.00	0.00	0.059	0.066			
	Age * DBP (z-score)	0.00	0.00	-0.29	112.34	0.00	0.00	0.773	0.949			
	Fixed effects										Model info	
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}		AIC	-54513.0
(Intercept)	0.50	0.01	79.04	151.93	0.48	0.51	0.000	0				

Table S5 - Linear mixed model results (without age interaction)

CAROTID INTIMA-MEDIA THICKNESS (IMT)												
Total brain volume (TBV)												
Fixed effects												Model info
Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	121037.8		
(Intercept)	885.70	29.63	29.89	193.63	827.26	944.14	0.000	0.000				
Age	7.02	0.34	20.77	49.00	6.34	7.69	0.000	0.000			Random effect SD	79.0
IMT (z-score)	2.36	1.69	1.39	67.80	-1.02	5.74	0.169	0.249				
Female sex	-68.61	2.72	-25.20	237.99	-73.98	-63.25	0.000	0.000				
Height	1.94	0.21	9.45	222.05	1.53	2.34	0.000	0.000				
Fixed effects												Model info
Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	120870.5		
(Intercept)	896.42	31.45	28.50	185.40	834.37	958.47	0.000	0.000				
Age	7.03	0.34	20.87	49.31	6.35	7.71	0.000	0.000			Random effect SD	77.5
IMT (z-score)	2.73	1.70	1.61	63.88	-0.66	6.12	0.113	0.222				
Female sex	-68.75	2.68	-25.63	236.53	-74.03	-62.47	0.000	0.000				
Height	1.63	0.21	7.94	263.46	1.22	2.03	0.000	0.000				
Non-European ethnicity	-23.38	3.14	-7.44	185.98	-29.58	-17.18	0.000	0.000				
BMI (z-score)	4.16	1.35	3.08	236.28	1.50	6.82	0.002	0.005				
Parental education	2.74	0.69	3.96	132.02	1.37	4.11	0.000	0.000				
Maternal age	0.50	0.27	1.85	335.70	-0.03	1.03	0.066	0.231				
Gray matter volume (GMV)												
Fixed effects												Model info
Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	110967.6		
(Intercept)	625.24	17.70	35.32	173.73	590.30	660.17	0.000	0.000				
Age	-0.61	0.20	-3.03	68.00	-1.01	-0.21	0.003	0.004			Random effect SD	45.7
IMT (z-score)	1.62	0.90	1.80	105.88	-0.17	3.41	0.075	0.175				
Female sex	-40.49	1.66	-24.35	172.13	-43.78	-37.21	0.000	0.000				
Height	1.08	0.12	8.64	169.56	0.83	1.32	0.000	0.000				
Fixed effects												Model info
Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	110761.3		
(Intercept)	626.37	19.01	32.94	148.59	588.80	663.94	0.000	0.000				
Age	-0.59	0.20	-2.97	68.40	-0.99	-0.19	0.004	0.005			Random effect SD	44.6
IMT (z-score)	1.89	0.90	2.10	97.68	0.10	3.67	0.038	0.164				
Female sex	-40.62	1.64	-24.76	164.43	-43.86	-37.38	0.000	0.000				
Height	0.91	0.13	7.07	147.87	0.65	1.16	0.000	0.000				
Non-European ethnicity	-14.88	1.89	-7.87	152.99	-18.62	-11.15	0.000	0.000				
BMI (z-score)	1.78	0.81	2.21	198.55	0.19	3.38	0.028	0.044				
Parental education	1.78	0.42	4.28	113.97	0.96	2.60	0.000	0.000				
Maternal age	0.37	0.17	2.21	210.76	0.04	0.69	0.028	0.203				
Global fractional anisotropy (FA)												
Fixed effects												Model info
Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{FDR}	AIC	-54499.5		
(Intercept)	0.50	0.01	85.38	167.17	0.49	0.51	0.000	0.000				
Age	0.00	0.00	21.67	52.58	0.00	0.00	0.000	0.000			Random effect SD	0.0
IMT (z-score)	0.00	0.00	-0.51	307.96	0.00	0.00	0.607	0.629				
Female sex	0.00	0.00	-0.35	219.17	0.00	0.00	0.728	0.728				

* SE = standard error; Df = degrees of freedom; LCI = lower limit of the 95% confidence interval; UCI = upper limit of the 95% confidence interval; AIC = Akaike information criterion; Rand. effect SD = random effect standard deviation;

Table S5 - Linear mixed model results (without age interaction) (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)													
Base model	Total brain volume (TBV)												
	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	121033.5		
	(Intercept)	860.59	30.59	28.14	182.94	800.24	920.93	0.000	0.000				
	Age	7.01	0.34	20.75	48.94	6.34	7.69	0.000	0.000	Random effect SD	78.9		
Fully adjusted model	SBP (z-score)	-3.58	1.39	-2.57	252.05	-6.32	-0.83	0.011	0.049				
	Female sex	-68.63	2.70	-25.46	255.05	-73.94	-63.32	0.000	0.000				
	Height	2.11	0.21	9.94	196.40	1.69	2.53	0.000	0.000				
	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	120868.6		
Fully adjusted model	(Intercept)	875.98	32.04	27.34	171.72	812.74	939.22	0.000	0.000				
	Age	7.03	0.34	20.85	49.23	6.35	7.71	0.000	0.000	Random effect SD	77.5		
	SBP (z-score)	-3.59	1.40	-2.55	384.04	-6.35	-0.83	0.011	0.049				
	Female sex	-68.77	2.66	-25.83	249.93	-74.02	-63.53	0.000	0.000				
	Height	1.77	0.21	8.41	221.80	1.36	2.19	0.000	0.000				
Fully adjusted model	Non-European ethnicity	-23.17	3.11	-7.46	204.90	-29.30	-17.05	0.000	0.000				
	BMI (z-score)	5.31	1.37	3.87	341.06	2.61	8.01	0.000	0.000				
	Parental education	2.69	0.69	3.89	131.94	1.32	4.06	0.000	0.000				
	Maternal age	0.49	0.27	1.84	336.28	0.94	1.02	0.067	0.235				
	Global matter volume (GMV)												
Base model	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	110957.9		
	(Intercept)	606.74	18.88	32.14	130.28	569.39	644.09	0.000	0.000				
	Age	-0.61	0.20	-3.04	68.03	-1.01	-0.21	0.003	0.004	Random effect SD	45.7		
	SBP (z-score)	-2.69	0.85	-3.17	184.06	-4.36	-1.01	0.002	0.028				
Fully adjusted model	Female sex	-40.48	1.65	-24.54	178.44	-43.74	-37.23	0.000	0.000				
	Height	1.21	0.13	9.05	124.21	0.94	1.47	0.000	0.000				
	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	110758.9		
	(Intercept)	612.60	19.76	31.00	122.13	573.48	651.72	0.000	0.000				
Fully adjusted model	Age	-0.59	0.20	-2.98	68.46	-0.99	-0.20	0.004	0.005	Random effect SD	44.6		
	SBP (z-score)	-2.38	0.86	-2.76	225.79	-4.08	-0.68	0.006	0.042				
	Female sex	-40.64	1.64	-24.85	165.64	-43.87	-37.41	0.000	0.000				
	Height	1.01	0.13	7.50	119.79	0.74	1.27	0.000	0.000				
	Non-European ethnicity	-14.74	1.87	-7.87	163.45	-18.43	-11.04	0.000	0.000				
Fully adjusted model	BMI (z-score)	2.55	0.83	3.06	237.56	0.91	4.19	0.002	0.004				
	Parental education	1.75	0.41	4.24	119.29	0.93	2.56	0.000	0.000				
	Maternal age	0.36	0.17	2.20	207.03	0.04	0.69	0.029	0.203				
	Global fractional anisotropy (FA)												
	Base model	Fixed effects								Model info			
Predictor		Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	-54499.3		
(Intercept)		0.50	0.01	85.43	205.30	0.49	0.51	0.000	0.000				
Age		0.00	0.00	21.67	52.56	0.00	0.00	0.000	0.000	Random effect SD	0.0		
SBP (z-score)		0.00	0.00	0.11	179.83	0.00	0.00	0.912	0.94				
Fully adjusted model	Female sex	0.00	0.00	-0.31	209.05	0.00	0.00	0.759	0.759				
	Height	0.00	0.00	1.81	194.25	0.00	0.00	0.072	0.081				
	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	-54514.5		
	(Intercept)	0.50	0.01	78.66	162.87	0.48	0.51	0.000	0.000				
Fully adjusted model	Age	0.00	0.00	21.72	52.60	0.00	0.00	0.000	0.000	Random effect SD	0.0		
	SBP (z-score)	0.00	0.00	0.56	199.84	0.00	0.00	0.575	0.654				
	Female sex	0.00	0.00	-0.37	212.34	0.00	0.00	0.712	0.738				
	Height	0.00	0.00	1.43	183.85	0.00	0.00	0.155	0.167				
	Non-European ethnicity	0.00	0.00	-1.90	199.94	0.00	0.00	0.059	0.064				
Fully adjusted model	BMI (z-score)	0.00	0.00	-0.03	259.89	0.00	0.00	0.973	0.973				
	Parental education	0.00	0.00	1.77	180.85	0.00	0.00	0.078	0.091				
	Maternal age	0.00	0.00	1.12	153.07	0.00	0.00	0.267	0.458				
	Global mean diffusivity (MD)												
	Base model	Fixed effects								Model info			
Predictor		Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	-57225.2		
(Intercept)		0.86	0.01	123.69	71.05	0.85	0.88	0.000	0.000				
Age		-0.01	0.00	-53.06	72.26	-0.01	0.00	0.000	0.000	Random effect SD	0.0		
SBP (z-score)		0.00	0.00	-0.80	203.54	0.00	0.00	0.424	0.594				
Fully adjusted model	Female sex	0.00	0.00	-6.98	559.35	0.00	0.00	0.000	0.000				
	Height	0.00	0.00	0.40	78.63	0.00	0.00	0.690	0.690				
	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	-57221.1		
	(Intercept)	0.86	0.01	123.75	89.05	0.85	0.88	0.000	0.000				
Fully adjusted model	Age	-0.01	0.00	-53.11	72.49	-0.01	0.00	0.000	0.000	Random effect SD	0.0		
	SBP (z-score)	0.00	0.00	-0.57	206.64	0.00	0.00	0.570	0.654				
	Female sex	0.00	0.00	-7.03	575.25	0.00	0.00	0.000	0.000				
	Height	0.00	0.00	0.55	83.69	0.00	0.00	0.585	0.607				
	Non-European ethnicity	0.00	0.00	-0.27	260.04	0.00	0.00	0.784	0.784				
Fully adjusted model	BMI (z-score)	0.00	0.00	-0.68	106.31	0.00	0.00	0.499	0.582				
	Parental education	0.00	0.00	0.05	185.76	0.00	0.00	0.958	0.958				
	Maternal age	0.00	0.00	-1.00	323.22	0.00	0.00	0.317	0.458				
	DIASTOLIC BLOOD PRESSURE (DBP)												
	Base model	Total brain volume (TBV)											
Fixed effects								Model info					
Predictor		Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	121027.4		
(Intercept)		874.34	29.85	29.29	172.24	815.43	933.25	0.000	0.000				
Age		7.02	0.34	20.76	48.96	6.34	7.69	0.000	0.000	Random effect SD	78.9		
Fully adjusted model	DBP (z-score)	-4.48	1.37	-3.27	222.81	-7.17	-1.78	0.001	0.009				
	Female sex	-68.40	2.69	-25.44	263.37	-73.70	-63.11	0.000	0.000				
	Height	2.02	0.21	9.75	190.59	1.61	2.42	0.000	0.000				
	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	120868.0		
Fully adjusted model	(Intercept)	887.91	31.59	28.11	169.43	825.55	950.27	0.000	0.000				
	Age	7.03	0.34	20.86	49.26	6.35	7.71	0.000	0.000	Random effect SD	77.5		
	DBP (z-score)	-3.41	1.37	-2.50	217.89	-6.10	-0.72	0.013	0.040				
	Female sex	-68.74	2.66	-25.88	256.92	-73.97	-63.51	0.000	0.000				
	Height	1.69	0.21	8.20	226.58	1.29	2.10	0.000	0.000				
Fully adjusted model	Non-European ethnicity	-22.92	3.11	-7.38	203.93	-29.04	-16.79	0.000	0.000				
	BMI (z-score)	4.57	1.35	3.38	239.94	1.90	7.24	0.001	0.002				
	Parental education	2.68	0.69	3.86	130.05	1.31	4.05	0.000	0.000				
	Maternal age	0.48	0.27	1.77	330.56	-0.05	1.00	0.078	0.273				
	Global matter volume (GMV)												
Base model	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	110953.3		
	(Intercept)	617.52	18.04	34.24	143.25	581.86	653.17	0.000	0.000				
	Age	-0.61	0.20	-3.04	68.12	-1.01	-0.21	0.003	0.004	Random effect SD	45.6		
	DBP (z-score)	-3.00	0.81	-3.73	225.25	-4.59	-1.41	0.000	0.000				
Fully adjusted model	Female sex	-40.36	1.66	-24.31	171.97	-43.63	-37.09	0.000	0.000				
	Height	1.13	0.13	8.89	137.48	0.88	1.38	0.000	0.000				
	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	110759.1		
	(Intercept)	620.54	19.38	32.02	125.05	582.19	658.90	0.000	0.000				
Fully adjusted model	Age	-0.59	0.20	-2.97	68.45	-0.99	-0.19	0.004	0.005	Random effect SD	44.6		
	DBP (z-score)	-2.19	0.80	-2.74	230.90	-3.76	-0.61	0.007	0.039				
	Female sex	-40.64	1.65	-24.70	159.02	-43.88	-37.39	0.000	0.000				
	Height	0.95	0.13	7.26	122.57	0.69	1.21	0.000	0.000				
	Non-European ethnicity	-14.57	1.88	-7.77	161.14	-18.28	-10.87	0.000	0.000				
Fully adjusted model	BMI (z-score)	2.05	0.81	2.54	209.52	0.46	3.64	0.012	0.019				
	Parental education	1.74	0.41	4.23	122.40	0.93	2.56	0.000	0.000				
	Maternal age	0.35	0.17	2.12	199.99	0.02	0.68	0.036	0.252				
	Global fractional anisotropy (FA)												
	Base model	Fixed effects								Model info			
Predictor		Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	-54499.5		
(Intercept)		0.50	0.01	86.76	181.15	0.49	0.51	0.000	0.000				
Age		0.00	0.00	21.68	52.62	0.00	0.00	0.000	0.000	Random effect SD	0.0		
DBP (z-score)		0.00	0.00	-0.28	139.77	0.00	0.00	0.781	0.875				
Fully adjusted model	Female sex	0.00	0.00	-0.28	209.38	0.00	0.00	0.781	0.875				
	Height	0.00	0.00	1.90	183.93	0.00	0.00	0.059	0.066				
	Fixed effects								Model info				
	Predictor	Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	-54514.3		
	(Intercept)	0.50	0.01	79.06	152.16	0.48	0.51	0.000	0.000				
Fully adjusted model	Age	0.00	0.00	21.72	52.63	0.00	0.00	0.000	0.000	Random effect SD	0.0		
	DBP (z-score)	0.00	0.00	0.13	130.62	0.00	0.00	0.901	0.934				
	Female sex	0.00	0.00	-0.34	211.54	0.00	0.00	0.736	0.763				
	Height	0.00	0.00	1.55	176.56	0.00	0.00	0.124	0.134				
	Non-European ethnicity	0.00	0.00	-1.89	191.17	0.00	0.00	0.060	0.065				
Fully adjusted model	BMI (z-score)	0.00	0.00	0.13	215.97	0.00	0.00	0.893	0.893				
	Parental education	0.00	0.00	1.75	179.33	0.00	0.00	0.082	0.092				
	Maternal age	0.00	0.00	1.12	152.92	0.00	0.00	0.266	0.489				
	Global mean diffusivity (MD)												
	Base model	Fixed effects								Model info			
Predictor		Beta	SE	Statistic	Df	LCI	UCI	P _{unadjusted}	P _{PDR}	AIC	-57225.8		
(Intercept)		0.86	0.01	124.76	65.35	0.85	0.88	0.000	0.000				
Age		-0											

* SE = standard error; Df = degrees of freedom; LCI = lower limit of the 95% confidence interval; UCI = upper limit of the 95% confidence interval; AIC = Akaike information criterion; Rand. effect SD = random effect standard deviation;

Table S6 - Sex interaction

CAROTID INTIMA-MEDIA THICKNESS (IMT)										CAROTID DISTENSIBILITY											
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		
Base model (R ² = .17)	Total brain volume (TBV)										Base model (R ² = .17)	Total brain volume (TBV)									
	(Intercept)	-2.44	0.47	-5.23	196.3	0.000	0.000	-3.36	-1.52	(Intercept)		-2.49	0.46	-5.41	214.1	0.000	0.000	-3.40	-1.58		
	IMT (z-score)	0.04	0.02	1.60	128.3	0.111	0.222	-0.01	0.08	Distensibility (z-score)		0.00	0.02	0.17	294.9	0.864	0.864	-0.04	0.05		
	Female sex	-0.76	0.03	-24.81	172.0	0.000	0.000	-0.82	-0.70	Female sex		-0.76	0.03	-25.45	202.1	0.000	0.000	-0.82	-0.70		
	Age	0.00	0.03	-0.06	80.3	0.955	0.955	-0.06	0.06	Age		0.00	0.03	-0.06	80.1	0.950	0.950	-0.06	0.06		
	Height	0.02	0.00	8.75	167.4	0.000	0.000	0.02	0.03	Height		0.02	0.00	8.55	124.4	0.000	0.000	0.02	0.03		
	IMT (z-score) * sex	-0.03	0.03	-0.99	278.8	0.325	0.535	-0.09	0.03	Distens. (z-score) * sex		0.00	0.03	0.03	133.4	0.980	0.985	-0.06	0.06		
	(Intercept)	-2.51	0.49	-5.15	164.0	0.000	0.000	-3.48	-1.55	(Intercept)		-2.58	0.48	-5.37	178.9	0.000	0.000	-3.53	-1.63		
	IMT (z-score)	0.04	0.02	1.70	124.4	0.092	0.222	-0.01	0.08	Distensibility (z-score)		0.01	0.02	0.27	274.4	0.791	0.864	-0.04	0.05		
	Female sex	-0.76	0.03	-25.01	162.9	0.000	0.000	-0.82	-0.70	Female sex		-0.77	0.03	-25.66	187.7	0.000	0.000	-0.82	-0.71		
Fully adjusted model (R ² = .19)	Age	0.02	0.03	0.56	73.9	0.579	0.662	-0.04	0.08	Age	0.02	0.03	0.55	73.5	0.587	0.671	-0.04	0.08			
	Height	0.02	0.00	7.25	175.7	0.000	0.000	0.01	0.02	Height	0.02	0.00	7.25	139.2	0.000	0.000	0.01	0.02			
	Non-European ethnicity	-0.27	0.03	-8.69	581.6	0.000	0.000	-0.33	-0.21	Non-European ethnicity	-0.26	0.03	-8.68	646.9	0.000	0.000	-0.32	-0.20			
	BMI (z-score)	0.04	0.02	2.82	192.0	0.005	0.020	0.01	0.07	BMI (z-score)	0.04	0.02	2.91	192.9	0.004	0.016	0.01	0.07			
	Parental education	0.04	0.01	2.54	101.1	0.013	0.026	0.01	0.06	Parental education	0.04	0.01	2.60	100.9	0.011	0.022	0.01	0.06			
	Maternal age	0.01	0.00	2.21	223.8	0.028	0.056	0.00	0.01	Maternal age	0.01	0.00	2.20	225.0	0.029	0.058	0.00	0.01			
	IMT (z-score) * sex	-0.02	0.03	-0.84	271.8	0.401	0.535	-0.08	0.03	Distens. (z-score) * sex	0.00	0.03	0.09	123.1	0.932	0.985	-0.06	0.07			
	Grey matter volume (GMV)										Grey matter volume (GMV)										
	(Intercept)	-1.39	0.44	-3.17	400.1	0.002	0.003	-2.24	-0.53	(Intercept)	-1.45	0.43	-3.34	440.4	0.001	0.002	-2.30	-0.60			
	IMT (z-score)	0.04	0.02	1.81	130.4	0.073	0.222	0.00	0.09	Distensibility (z-score)	0.01	0.02	0.22	191.4	0.828	0.864	-0.04	0.05			
Base model (R ² = .17)	Female sex	-0.77	0.03	-24.77	156.8	0.000	0.000	-0.83	-0.71	Female sex	-0.77	0.03	-24.74	147.5	0.000	0.000	-0.83	-0.71			
	Age	-0.06	0.03	-2.15	128.5	0.034	0.054	-0.11	0.00	Age	-0.06	0.03	-2.15	129.8	0.033	0.053	-0.11	-0.01			
	Height	0.02	0.00	8.02	185.3	0.000	0.000	0.01	0.02	Height	0.02	0.00	7.87	134.1	0.000	0.000	0.01	0.02			
	IMT (z-score) * sex	-0.03	0.03	-1.11	322.0	0.270	0.535	-0.09	0.03	Distens. (z-score) * sex	0.00	0.03	-0.05	291.3	0.958	0.985	-0.06	0.06			
	(Intercept)	-1.59	0.47	-3.36	206.3	0.001	0.002	-2.52	-0.66	(Intercept)	-1.67	0.47	-3.57	224.3	0.000	0.000	-2.59	-0.75			
	IMT (z-score)	0.04	0.02	1.94	126.7	0.055	0.222	0.00	0.09	Distensibility (z-score)	0.00	0.02	0.19	164.3	0.850	0.864	-0.04	0.05			
	Female sex	-0.77	0.03	-24.98	145.0	0.000	0.000	-0.83	-0.71	Female sex	-0.77	0.03	-24.97	136.7	0.000	0.000	-0.84	-0.71			
	Age	-0.04	0.03	-1.33	99.0	0.186	0.248	-0.09	0.02	Age	-0.04	0.03	-1.34	99.5	0.185	0.247	-0.09	0.02			
	Height	0.02	0.00	6.48	155.5	0.000	0.000	0.01	0.02	Height	0.02	0.00	6.50	124.6	0.000	0.000	0.01	0.02			
	Non-European ethnicity	-0.29	0.03	-8.88	246.1	0.000	0.000	-0.35	-0.23	Non-European ethnicity	-0.29	0.03	-8.83	252.8	0.000	0.000	-0.35	-0.22			
Fully adjusted model (R ² = .20)	BMI (z-score)	0.03	0.02	1.87	154.0	0.063	0.126	0.00	0.06	BMI (z-score)	0.03	0.02	1.95	157.3	0.053	0.106	0.00	0.06			
	Parental education	0.04	0.01	3.08	144.1	0.002	0.008	0.01	0.07	Parental education	0.04	0.01	3.16	147.8	0.002	0.008	0.02	0.07			
	Maternal age	0.01	0.00	2.63	210.2	0.009	0.036	0.00	0.01	Maternal age	0.01	0.00	2.62	208.9	0.009	0.036	0.00	0.01			
	IMT (z-score) * sex	-0.03	0.03	-0.94	315.8	0.349	0.535	-0.08	0.03	Distens. (z-score) * sex	0.00	0.03	0.02	257.6	0.985	0.985	-0.06	0.06			
	Global fractional anisotropy (FA)										Global fractional anisotropy (FA)										
	(Intercept)	-1.45	0.49	-2.96	288.7	0.003	0.003	-2.42	-0.49	(Intercept)	-1.45	0.49	-2.95	277.1	0.003	0.003	-2.42	-0.48			
	IMT (z-score)	0.02	0.03	0.66	129.2	0.511	0.681	-0.03	0.07	Distensibility (z-score)	0.01	0.03	0.26	111.3	0.794	0.864	-0.04	0.06			
	Female sex	-0.02	0.03	-0.66	231.1	0.511	0.515	-0.09	0.04	Female sex	-0.02	0.03	-0.72	203.6	0.474	0.479	-0.09	0.04			
	Age	0.07	0.03	2.48	342.6	0.014	0.028	0.01	0.12	Age	0.06	0.03	2.39	309.4	0.017	0.034	0.01	0.12			
	Height	0.00	0.00	1.62	250.7	0.106	0.170	0.00	0.01	Height	0.00	0.00	1.64	185.4	0.102	0.163	0.00	0.01			
Base model (R ² < .01)	IMT (z-score) * sex	-0.04	0.04	-1.20	123.2	0.234	0.535	-0.11	0.03	Distens. (z-score) * sex	0.02	0.04	0.52	82.6	0.605	0.985	-0.06	0.10			
	(Intercept)	-1.69	0.52	-3.26	231.1	0.001	0.002	-2.72	-0.67	(Intercept)	-1.68	0.52	-3.24	222.8	0.001	0.002	-2.71	-0.66			
	IMT (z-score)	0.02	0.03	0.67	130.1	0.503	0.681	-0.03	0.07	Distensibility (z-score)	0.01	0.03	0.20	116.0	0.841	0.864	-0.05	0.06			
	Female sex	-0.02	0.03	-0.65	222.4	0.515	0.515	-0.09	0.04	Female sex	-0.02	0.03	-0.71	199.3	0.479	0.479	-0.09	0.04			
	Age	0.07	0.03	2.75	377.0	0.006	0.016	0.02	0.12	Age	0.07	0.03	2.66	338.4	0.008	0.021	0.02	0.12			
	Height	0.00	0.00	1.36	230.9	0.174	0.232	0.00	0.01	Height	0.00	0.00	1.37	186.7	0.171	0.228	0.00	0.01			
	Non-European ethnicity	-0.05	0.04	-1.45	231.2	0.147	0.196	-0.13	0.02	Non-European ethnicity	-0.05	0.04	-1.50	232.7	0.135	0.180	-0.13	0.02			
	BMI (z-score)	0.00	0.02	-0.03	123.0	0.980	0.980	-0.04	0.03	BMI (z-score)	0.00	0.02	0.09	129.4	0.927	0.927	-0.03	0.04			
	Parental education	0.02	0.02	1.20	119.1	0.232	0.309	-0.01	0.05	Parental education	0.02	0.02	1.20	120.7	0.233	0.311	-0.01	0.05			
	Maternal age	0.01	0.00	1.51	185.0	0.133	0.177	0.00	0.01	Maternal age	0.01	0.00	1.51	181.0	0.133	0.177	0.00	0.01			
Fully adjusted model (R ² = .01)	IMT (z-score) * sex	-0.04	0.04	-1.16	126.3	0.250	0.535	-0.11	0.03	Distens. (z-score) * sex	0.02	0.04	0.54	82.3	0.592	0.985	-0.06	0.10			
	Global mean diffusivity (MD)										Global mean diffusivity (MD)										
	(Intercept)	1.63	0.53	3.06	133.2	0.003	0.003	0.58	2.69	(Intercept)	1.63	0.54	3.01	122.0	0.003	0.003	0.56	2.70			
	IMT (z-score)	0.01	0.03	0.23	95.6	0.819	0.819	-0.05	0.06	Distensibility (z-score)	-0.01	0.03	-0.24	94.7	0.813	0.864	-0.06	0.05			
	Female sex	-0.16	0.03	-5.15	297.0	0.000	0.000	-0.22	-0.10	Female sex	-0.16	0.03	-5.11	283.8	0.000	0.000	-0.22	-0.10			
	Age	-0.11	0.03	-3.92	227.6	0.000	0.000	-0.16	-0.05	Age	-0.11	0.03	-3.84	213.4	0.000	0.000	-0.16	-0.05			
	Height	0.00	0.00	-0.18	120.7	0.856	0.940	-0.01	0.01	Height	0.00	0.00	-0.21	106.5	0.831	0.950	-0.01	0.01			
	IMT (z-score) * sex	0.01	0.04	0.30	53.7	0.764	0.764	-0.07	0.10	Distens. (z-score) * sex	-0.02	0.04	-0.56	103.6	0.579	0.985	-0.09	0.05			
	(Intercept)	1.59	0.54	2.94	157.4	0.004	0.004	0.52	2.66	(Intercept)	1.58	0.55	2.88	141.0	0.005	0.005	0.49	2.66			
	IMT (z-score)	0.01	0.03	0.25	94.7	0.803	0.819	-0.05	0.06	Distensibility (z-score)	-0.01	0.03	-0.35	97.1	0.724	0.864	-0.06	0.04			
Fully adjusted model (R ² = .01)	Female sex	-0.16	0.03	-5.17	280.7	0.000	0.000	-0.23	-0.10	Female sex	-0.16	0.03	-5.12	269.2	0.000	0.000	-0.23	-0.10			
	Age	-0.11	0.03	-3.89	228.6	0.000	0.000	-0.16	-0.05	Age	-0.10	0.03	-3.80	213.7	0.000	0.000	-0.16	-0.05			
	Height	0.00	0.00	0.08	135.2	0.940	0.940	-0.01	0.01	Height	0.00	0.00	0.05	118.4	0.958	0.958	-0.01	0.01			
	Non-European ethnicity	-0.01	0.04	-0.24	279.2	0.809	0.809	-0.08	0.06	Non-European ethnicity	-0.01	0.04	-0.17	276.9	0.862	0.862	-0.08	0.06			
	BMI (z-score)	-0.02	0.02	-1.11	110.3	0.270	0.360	-0.06	0.02	BMI (z-score)	-0.02	0.02	-1.25	118.7	0.215	0.287	-0.06	0.01			
	Parental education	0.00	0.02	0.14	108.7	0.887	0.887	-0.03	0.03	Parental education	0.00	0.02	0.17	107.8	0.866	0.866	-0.03	0.03			
	Maternal age	0.00	0.00	-0.60	160.7	0.551	0.551	-0.01	0.01	Maternal age	0.00	0.00	-0.60	162.3	0.551	0.551	-0.01	0.01			
	IMT (z-score) * sex	0.01	0.04	0.31	53.5	0.761	0.764	-0.07	0.10	Distens. (z-score) * sex	-0.02	0.04	-0.56	103.8	0.577	0.985	-0.09	0.06			

Table S6 - Sex interaction (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)										DIASTOLIC BLOOD PRESSURE (DBP)									
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI
	Total brain volume (TBV)										Total brain volume (TBV)								
Base model (R ² = .17)	(Intercept)	-2.68	0.47	-5.73	205.9	0.000	0.000	-3.60	-1.76	Base model (R ² = .17)	(Intercept)	-2.53	0.46	-5.52	214.6	0.000	0.000	-3.44	-1.63
	SBP (z-score)	-0.04	0.02	-1.80	317.7	0.073	0.146	-0.08	0.00		DBP (z-score)	-0.07	0.02	-3.30	194.0	0.001	0.004	-0.11	-0.03
	Female sex	-0.76	0.03	-25.13	187.2	0.000	0.000	-0.82	-0.70		Female sex	-0.76	0.03	-25.11	191.1	0.000	0.000	-0.81	-0.70
	Age	0.00	0.03	-0.11	82.5	0.916	0.916	-0.06	0.06		Age	0.00	0.03	-0.07	81.9	0.947	0.947	-0.06	0.06
	Height	0.02	0.00	9.31	164.9	0.000	0.000	0.02	0.03		Height	0.02	0.00	9.03	153.4	0.000	0.000	0.02	0.03
	SBP (z-score) * sex	-0.01	0.03	-0.15	153.1	0.879	0.987	-0.07	0.06		DBP (z-score) * sex	0.04	0.03	1.23	98.5	0.221	0.589	-0.03	0.11
Fully adjusted model (R ² = .19)	(Intercept)	-2.70	0.49	-5.57	172.4	0.000	0.000	-3.66	-1.75	Fully adjusted model (R ² = .19)	(Intercept)	-2.58	0.48	-5.36	176.5	0.000	0.000	-3.53	-1.63
	SBP (z-score)	-0.04	0.02	-1.88	471.9	0.061	0.146	-0.08	0.00		DBP (z-score)	-0.06	0.02	-2.60	158.2	0.010	0.022	-0.10	-0.01
	Female sex	-0.76	0.03	-25.29	176.1	0.000	0.000	-0.82	-0.70		Female sex	-0.76	0.03	-25.32	178.7	0.000	0.000	-0.82	-0.70
	Age	0.01	0.03	0.49	75.8	0.624	0.713	-0.04	0.07		Age	0.02	0.03	0.54	75.2	0.594	0.679	-0.04	0.07
	Height	0.02	0.00	7.78	167.5	0.000	0.000	0.01	0.02		Height	0.02	0.00	7.50	164.2	0.000	0.000	0.01	0.02
	Non-European ethnicity	-0.26	0.03	-8.72	687.0	0.000	0.000	-0.32	-0.21		Non-European ethnicity	-0.26	0.03	-8.61	665.7	0.000	0.000	-0.32	-0.20
	BMI (z-score)	0.06	0.02	3.64	270.9	0.000	0.000	0.03	0.09		BMI (z-score)	0.05	0.02	3.10	190.0	0.002	0.008	0.02	0.08
	Parental education	0.03	0.01	2.47	100.7	0.015	0.030	0.01	0.06		Parental education	0.03	0.01	2.39	96.6	0.019	0.038	0.01	0.06
	Maternal age	0.01	0.00	2.20	221.2	0.029	0.058	0.00	0.01		Maternal age	0.01	0.00	2.13	217.3	0.035	0.070	0.00	0.01
	SBP (z-score) * sex	-0.01	0.03	-0.16	140.6	0.873	0.987	-0.07	0.06		DBP (z-score) * sex	0.03	0.03	1.03	91.4	0.304	0.608	-0.03	0.10
Base model (R ² = .17)	Grey matter volume (GMV)									Base model (R ² = .17)	Grey matter volume (GMV)								
	(Intercept)	-1.69	0.44	-3.86	440.5	0.000	0.000	-2.55	-0.83		(Intercept)	-1.50	0.43	-3.49	483.1	0.001	0.002	-2.34	-0.66
	SBP (z-score)	-0.05	0.02	-2.48	272.3	0.014	0.112	-0.09	-0.01		DBP (z-score)	-0.08	0.02	-3.38	92.4	0.001	0.004	-0.13	-0.03
	Female sex	-0.76	0.03	-24.57	146.0	0.000	0.000	-0.83	-0.70		Female sex	-0.76	0.03	-24.30	137.5	0.000	0.000	-0.82	-0.70
	Age	-0.06	0.03	-2.22	131.7	0.028	0.045	-0.11	-0.01		Age	-0.06	0.03	-2.17	133.3	0.031	0.050	-0.11	-0.01
	Height	0.02	0.00	8.65	158.1	0.000	0.000	0.02	0.03		Height	0.02	0.00	8.31	162.2	0.000	0.000	0.01	0.02
	SBP (z-score) * sex	0.00	0.03	0.08	151.0	0.937	0.987	-0.06	0.06		DBP (z-score) * sex	0.05	0.03	1.48	115.6	0.142	0.589	-0.02	0.11
Fully adjusted model (R ² = .20)	(Intercept)	-1.81	0.47	-3.84	222.3	0.000	0.000	-2.73	-0.88	Fully adjusted model (R ² = .20)	(Intercept)	-1.67	0.47	-3.58	228.2	0.000	0.000	-2.58	-0.75
	SBP (z-score)	-0.05	0.02	-2.20	269.1	0.029	0.116	-0.09	-0.01		DBP (z-score)	-0.06	0.02	-2.62	86.1	0.011	0.022	-0.11	-0.02
	Female sex	-0.77	0.03	-24.67	131.9	0.000	0.000	-0.83	-0.71		Female sex	-0.77	0.03	-24.48	125.5	0.000	0.000	-0.83	-0.71
	Age	-0.04	0.03	-1.42	101.4	0.160	0.213	-0.09	0.02		Age	-0.04	0.03	-1.37	101.3	0.175	0.233	-0.09	0.02
	Height	0.02	0.00	7.08	146.5	0.000	0.000	0.01	0.02		Height	0.02	0.00	6.72	139.9	0.000	0.000	0.01	0.02
	Non-European ethnicity	-0.29	0.03	-8.87	260.1	0.000	0.000	-0.35	-0.22		Non-European ethnicity	-0.28	0.03	-8.76	255.7	0.000	0.000	-0.35	-0.22
	BMI (z-score)	0.04	0.02	2.68	143.8	0.008	0.016	0.01	0.08		BMI (z-score)	0.03	0.02	2.18	154.7	0.031	0.062	0.00	0.06
	Parental education	0.04	0.01	3.02	153.0	0.003	0.012	0.01	0.06		Parental education	0.04	0.01	2.95	148.9	0.004	0.016	0.01	0.06
	Maternal age	0.01	0.00	2.62	206.0	0.009	0.036	0.00	0.01		Maternal age	0.01	0.00	2.54	203.5	0.012	0.048	0.00	0.01
	SBP (z-score) * sex	0.00	0.03	0.05	139.7	0.961	0.987	-0.06	0.06		DBP (z-score) * sex	0.04	0.03	1.25	107.1	0.213	0.589	-0.02	0.10
Base model (R ² < .01)	Global fractional anisotropy (FA)									Base model (R ² < .01)	Global fractional anisotropy (FA)								
	(Intercept)	-1.44	0.49	-2.94	339.2	0.003	0.004	-2.40	-0.48		(Intercept)	-1.42	0.49	-2.89	273.4	0.004	0.005	-2.39	-0.45
	SBP (z-score)	0.00	0.03	0.16	106.3	0.875	0.875	-0.05	0.06		DBP (z-score)	-0.01	0.02	-0.23	146.9	0.815	0.931	-0.05	0.04
	Female sex	-0.02	0.03	-0.61	206.4	0.540	0.540	-0.08	0.04		Female sex	-0.02	0.03	-0.60	206.1	0.548	0.548	-0.08	0.05
	Age	0.06	0.03	2.43	321.0	0.016	0.032	0.01	0.12		Age	0.06	0.03	2.44	322.7	0.015	0.030	0.01	0.12
	Height	0.00	0.00	1.59	255.8	0.113	0.181	0.00	0.01		Height	0.00	0.00	1.57	243.7	0.117	0.187	0.00	0.01
	SBP (z-score) * sex	-0.02	0.04	-0.46	116.9	0.644	0.987	-0.09	0.05		DBP (z-score) * sex	0.00	0.03	-0.02	161.8	0.985	0.985	-0.07	0.07
Fully adjusted model (R ² = .01)	(Intercept)	-1.66	0.52	-3.20	246.8	0.002	0.003	-2.68	-0.64	Fully adjusted model (R ² = .01)	(Intercept)	-1.66	0.52	-3.20	224.1	0.002	0.003	-2.68	-0.64
	SBP (z-score)	0.01	0.03	0.43	97.7	0.672	0.870	-0.04	0.07		DBP (z-score)	0.00	0.02	0.07	138.7	0.941	0.941	-0.05	0.05
	Female sex	-0.02	0.03	-0.64	196.6	0.523	0.540	-0.09	0.04		Female sex	-0.02	0.03	-0.63	198.1	0.529	0.548	-0.09	0.04
	Age	0.07	0.03	2.70	347.9	0.007	0.019	0.02	0.12		Age	0.07	0.03	2.71	350.8	0.007	0.019	0.02	0.12
	Height	0.00	0.00	1.28	244.6	0.201	0.268	0.00	0.01		Height	0.00	0.00	1.31	230.5	0.192	0.256	0.00	0.01
	Non-European ethnicity	-0.05	0.04	-1.48	241.1	0.140	0.187	-0.13	0.02		Non-European ethnicity	-0.05	0.04	-1.49	236.3	0.139	0.185	-0.13	0.02
	BMI (z-score)	0.00	0.02	-0.08	117.1	0.934	0.934	-0.04	0.04		BMI (z-score)	0.00	0.02	-0.04	114.2	0.970	0.970	-0.04	0.04
	Parental education	0.02	0.02	1.22	125.5	0.226	0.301	-0.01	0.05		Parental education	0.02	0.02	1.19	119.7	0.236	0.315	-0.01	0.05
	Maternal age	0.01	0.00	1.52	183.5	0.130	0.173	0.00	0.01		Maternal age	0.01	0.00	1.53	191.1	0.129	0.172	0.00	0.01
	SBP (z-score) * sex	-0.02	0.04	-0.50	115.2	0.618	0.987	-0.09	0.05		DBP (z-score) * sex	0.00	0.03	-0.09	164.5	0.925	0.985	-0.07	0.06
Base model (R ² = .01)	Global mean diffusivity (MD)									Base model (R ² = .01)	Global mean diffusivity (MD)								
	(Intercept)	1.52	0.53	2.86	144.1	0.005	0.006	0.47	2.58		(Intercept)	1.58	0.54	2.91	118.4	0.004	0.005	0.50	2.65
	SBP (z-score)	-0.01	0.02	-0.59	230.9	0.558	0.870	-0.06	0.03		DBP (z-score)	-0.02	0.02	-0.72	172.2	0.472	0.720	-0.06	0.03
	Female sex	-0.16	0.03	-5.18	299.0	0.000	0.000	-0.22	-0.10		Female sex	-0.16	0.03	-5.12	272.4	0.000	0.000	-0.22	-0.10
	Age	-0.11	0.03	-3.90	215.0	0.000	0.000	-0.16	-0.05		Age	-0.11	0.03	-3.90	216.3	0.000	0.000	-0.16	-0.05
	Height	0.00	0.00	0.12	134.0	0.906	0.906	-0.01	0.01		Height	0.00	0.00	-0.03	111.6	0.973	0.973	-0.01	0.01
Fully adjusted model (R ² = .01)	SBP (z-score) * sex	0.00	0.04	-0.02	121.4	0.987	0.987	-0.07	0.07	Fully adjusted model (R ² = .01)	DBP (z-score) * sex	0.00	0.04	0.06	102.3	0.955	0.985	-0.07	0.07
	(Intercept)	1.52	0.55	2.80	153.4	0.006	0.006	0.45	2.60		(Intercept)	1.55	0.55	2.82	138.8	0.006	0.006	0.46	2.63
	SBP (z-score)	-0.01	0.02	-0.31	212.5	0.761	0.870	-0.06	0.04		DBP (z-score)	-0.02	0.02	-0.62	153.4	0.540	0.720	-0.06	0.03
	Female sex	-0.17	0.03	-5.23	287.5	0.000	0.000	-0.23	-0.10		Female sex	-0.16	0.03	-5.14	260.1	0.000	0.000	-0.23	-0.10
	Age	-0.11	0.03	-3.87	216.3	0.000	0.000	-0.16	-0.05		Age	-0.11	0.03	-3.87	218.7	0.000	0.000	-0.16	-0.05
	Height	0.00	0.00	0.26	135.3	0.799	0.906	-0.01	0.01		Height	0.00	0.00	0.20	126.1	0.841	0.961	-0.01	0.01
	Non-European ethnicity	-0.01	0.04	-0.20	272.4	0.840	0.840	-0.08	0.06		Non-European ethnicity	-0.01	0.04	-0.18	265.0	0.860	0.860	-0.08	0.06
	BMI (z-score)	-0.02	0.02	-0.90	111.5	0.368	0.491	-0.05	0.02		BMI (z-score)	-0.02	0.02	-1.00	107.0	0.320	0.427	-0.05	0.02
	Parental education	0.00	0.02	0.15	109.3	0.883	0.883	-0.03	0.03		Parental education	0.00	0.02	0.12	107.6	0.907	0.907	-0.03	0.03
	Maternal age	0.00	0.00	-0.61	163.5	0.545	0.545	-0.01	0.01		Maternal age	0.00	0.00	-0.63	164.7	0.531	0.531	-0.01	0.01
SBP (z-score) * sex	0.00	0.04	-0.03	125.6	0.974	0.987	-0.07	0.07	DBP (z-score) * sex	0.00	0.04	0.06	103.7	0.956	0.985	-0.07	0.07		

Table S7- Global vs. regional volumes

CAROTID INTIMA-MEDIA THICKNESS (IMT)									
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI
Base model (R ² = .15)	Total intracranial volume (TIV)								
	(Intercept)	-3.11	0.58	-5.37	141.1	0.000	0.000	-4.25	-1.96
	IMT (z-score)	0.03	0.02	1.76	69.9	0.082	0.246	0.00	0.07
	Female sex	-0.70	0.03	-23.38	211.8	0.000	0.000	-0.76	-0.64
	Age at MRI	-0.02	0.05	-0.34	87.0	0.732	0.952	-0.13	0.09
	Age delta	0.09	0.04	1.93	147.5	0.055	0.175	0.00	0.17
	Height	0.02	0.00	8.94	87.6	0.000	0.000	0.02	0.03
Fully adjusted model (R ² = .17)	(Intercept)	-3.49	0.61	-5.71	118.5	0.000	0.000	-4.70	-2.28
	IMT (z-score)	0.04	0.02	1.93	69.2	0.058	0.232	0.00	0.07
	Female sex	-0.70	0.03	-23.48	202.3	0.000	0.000	-0.76	-0.64
	Age at MRI	0.05	0.06	0.90	79.6	0.372	0.638	-0.06	0.16
	Age delta	0.03	0.05	0.65	130.7	0.519	0.566	-0.06	0.12
	Height	0.02	0.00	7.03	79.8	0.000	0.000	0.01	0.03
	Non-European ethnicity	-0.22	0.03	-6.40	235.9	0.000	0.000	-0.28	-0.15
Base model (R ² = .15)	Cortical grey matter volume								
	(Intercept)	-0.29	0.50	-0.58	866.2	0.562	0.562	-1.27	0.69
	IMT (z-score)	0.02	0.02	1.23	89.8	0.223	0.446	-0.01	0.06
	Female sex	-0.71	0.03	-21.59	109.5	0.000	0.000	-0.78	-0.65
	Age at MRI	-0.17	0.05	-3.62	258.5	0.000	0.000	-0.26	-0.08
	Age delta	0.10	0.04	2.35	152.4	0.020	0.175	0.02	0.19
	Height	0.02	0.00	7.39	147.5	0.000	0.000	0.01	0.02
Fully adjusted model (R ² = .17)	(Intercept)	-1.07	0.52	-2.05	566.3	0.041	0.062	-2.10	-0.04
	IMT (z-score)	0.03	0.02	1.48	85.0	0.142	0.341	-0.01	0.06
	Female sex	-0.72	0.03	-21.88	107.7	0.000	0.000	-0.78	-0.65
	Age at MRI	-0.08	0.05	-1.68	234.5	0.095	0.416	-0.17	0.01
	Age delta	0.03	0.04	0.69	150.3	0.489	0.566	-0.06	0.12
	Height	0.01	0.00	5.74	173.8	0.000	0.000	0.01	0.02
	Non-European ethnicity	-0.25	0.04	-7.27	182.7	0.000	0.000	-0.32	-0.18
Base model (R ² = .13)	Sub-cortical grey matter volume								
	(Intercept)	-1.90	0.56	-3.39	206.5	0.001	0.002	-3.00	-0.79
	IMT (z-score)	0.03	0.02	1.95	139.3	0.053	0.232	0.00	0.06
	Female sex	-0.66	0.03	-21.44	196.4	0.000	0.000	-0.72	-0.60
	Age at MRI	-0.07	0.05	-1.39	125.3	0.167	0.416	-0.17	0.03
	Age delta	0.09	0.05	1.89	123.7	0.061	0.175	0.00	0.18
	Height	0.02	0.00	7.58	92.8	0.000	0.000	0.02	0.03
Fully adjusted model (R ² = .15)	(Intercept)	-2.31	0.58	-3.98	193.0	0.000	0.000	-3.46	-1.17
	IMT (z-score)	0.03	0.02	2.08	134.5	0.040	0.232	0.00	0.07
	Female sex	-0.66	0.03	-21.62	197.6	0.000	0.000	-0.72	-0.60
	Age at MRI	-0.01	0.05	-0.11	115.2	0.909	0.952	-0.11	0.10
	Age delta	0.03	0.05	0.72	116.5	0.474	0.566	-0.06	0.13
	Height	0.02	0.00	5.80	87.0	0.000	0.000	0.01	0.02
	Non-European ethnicity	-0.19	0.04	-5.17	150.9	0.000	0.000	-0.26	-0.12
Base model (R ² = .13)	White matter volume								
	(Intercept)	-2.99	0.55	-5.45	250.8	0.000	0.000	-4.07	-1.91
	IMT (z-score)	0.02	0.02	0.96	80.0	0.340	0.510	-0.02	0.05
	Female sex	-0.65	0.03	-21.25	197.4	0.000	0.000	-0.71	-0.59
	Age at MRI	0.02	0.05	0.37	119.1	0.716	0.952	-0.08	0.12
	Age delta	0.06	0.05	1.27	110.3	0.206	0.378	-0.03	0.15
	Height	0.02	0.00	7.80	119.5	0.000	0.000	0.02	0.03
Fully adjusted model (R ² = .14)	(Intercept)	-3.27	0.57	-5.73	230.3	0.000	0.000	-4.40	-2.15
	IMT (z-score)	0.02	0.02	1.10	79.3	0.276	0.473	-0.02	0.06
	Female sex	-0.65	0.03	-21.30	190.4	0.000	0.000	-0.71	-0.59
	Age at MRI	0.08	0.05	1.47	116.2	0.144	0.416	-0.03	0.18
	Age delta	0.01	0.05	0.25	112.2	0.804	0.804	-0.08	0.11
	Height	0.02	0.00	6.43	163.7	0.000	0.000	0.01	0.02
	Non-European ethnicity	-0.19	0.03	-5.85	173.2	0.000	0.000	-0.26	-0.13
Base model (R ² = .13)	Ventricles volume								
	(Intercept)	-1.42	0.64	-2.21	120.0	0.029	0.050	-2.69	-0.15
	IMT (z-score)	0.01	0.02	0.29	80.0	0.774	0.774	-0.03	0.04
	Female sex	-0.15	0.03	-4.38	135.6	0.000	0.000	-0.22	-0.08
	Age	-0.01	0.06	-0.12	74.5	0.909	0.952	-0.13	0.11
	Age delta	0.06	0.05	1.22	107.3	0.224	0.378	-0.04	0.16
	Height	0.01	0.00	3.63	163.5	0.000	0.000	0.00	0.01
Fully adjusted model (R ² = .01)	(Intercept)	-1.37	0.69	-1.98	98.9	0.050	0.067	-2.74	0.00
	IMT (z-score)	0.01	0.02	0.29	79.7	0.771	0.774	-0.03	0.04
	Female sex	-0.15	0.03	-4.36	136.5	0.000	0.000	-0.22	-0.08
	Age at MRI	0.00	0.06	-0.06	74.4	0.952	0.952	-0.13	0.12
	Age delta	0.06	0.05	1.15	106.8	0.252	0.378	-0.04	0.16
	Height	0.01	0.00	3.28	167.2	0.001	0.001	0.00	0.01
	Non-European ethnicity	-0.02	0.04	-0.51	202.5	0.613	0.732	-0.09	0.06
Base model (R ² = .01)	Cerebro-spinal fluid (CSF)								
	(Intercept)	-1.07	0.63	-1.70	133.7	0.092	0.110	-2.32	0.18
	IMT (z-score)	0.02	0.02	0.82	92.4	0.412	0.549	-0.02	0.05
	Female sex	-0.14	0.04	-3.87	117.2	0.000	0.000	-0.21	-0.07
	Age at MRI	-0.07	0.06	-1.30	111.9	0.196	0.416	-0.18	0.04
	Age delta	0.09	0.05	1.85	116.2	0.067	0.175	-0.01	0.19
	Height	0.01	0.00	5.01	233.8	0.000	0.000	0.01	0.02
Fully adjusted model (R ² = .01)	(Intercept)	-0.93	0.66	-1.42	130.0	0.158	0.172	-2.23	0.37
	IMT (z-score)	0.01	0.02	0.72	90.8	0.475	0.570	-0.02	0.05
	Female sex	-0.13	0.04	-3.84	119.5	0.000	0.000	-0.20	-0.07
	Age at MRI	-0.07	0.06	-1.27	111.6	0.208	0.416	-0.18	0.04
	Age delta	0.09	0.05	1.81	116.3	0.073	0.175	-0.01	0.19
	Height	0.01	0.00	4.36	273.8	0.000	0.000	0.01	0.02
	Non-European ethnicity	0.01	0.04	0.34	264.9	0.732	0.732	-0.06	0.08
Base model (R ² = .01)	Cerebro-spinal fluid (CSF)								
	(Intercept)	-1.11	0.63	-1.78	140.8	0.077	0.092	-2.35	0.12
	Distensibility (z-score)	0.00	0.02	-0.04	87.2	0.968	0.968	-0.04	0.04
	Female sex	-0.14	0.04	-3.99	124.9	0.000	0.000	-0.21	-0.07
	Age at MRI	-0.07	0.06	-1.29	111.4	0.199	0.418	-0.18	0.04
	Age delta	0.09	0.05	1.85	117.7	0.067	0.175	-0.01	0.19
	Height	0.01	0.00	5.05	212.1	0.000	0.000	0.00	0.01
Fully adjusted model (R ² = .01)	(Intercept)	-0.98	0.65	-1.50	136.2	0.136	0.148	-2.27	0.31
	Distensibility (z-score)	0.00	0.02	0.22	80.8	0.827	0.968	-0.03	0.04
	Female sex	-0.14	0.04	-3.97	127.0	0.000	0.000	-0.21	-0.07
	Age at MRI	-0.07	0.06	-1.26	111.0	0.209	0.418	-0.18	0.04
	Age delta	0.09	0.05	1.81	117.5	0.073	0.175	-0.01	0.19
	Height	0.01	0.00	4.45	250.5	0.000	0.000	0.01	0.02
	Non-European ethnicity	0.01	0.04	0.37	251.4	0.709	0.709	-0.06	0.09

* SE = standard error; Df = degrees of freedom; FDR = false discovery rate; LCI = lower limit of the 95% confidence interval; UCI = upper limit of the 95% confidence interval; TIV = Total intracranial volume.

Table S7 - Global vs. regional volumes (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)										DIASTOLIC BLOOD PRESSURE (DBP)										
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI	
Base model (R ² = .15)	Total intracranial volume (TIV)										Total intracranial volume (TIV)									
	(Intercept)	-3.32	0.58	-5.70	145.8	0.000	0.000	-4.47	-2.17	(Intercept)	-3.26	0.57	-5.73	157.1	0.000	0.000	-4.38	-2.14		
	SBP (z-score)	-0.02	0.02	-1.23	111.6	0.221	0.379	-0.05	0.01	DBP (z-score)	-0.04	0.02	-2.34	196.9	0.020	0.058	-0.07	-0.01		
	Female sex	-0.71	0.03	-23.71	225.9	0.000	0.000	-0.77	-0.65	Female sex	-0.70	0.03	-23.61	225.7	0.000	0.000	-0.76	-0.65		
	Age at MRI	-0.02	0.05	-0.30	87.7	0.766	0.944	-0.12	0.09	Age at MRI	-0.02	0.05	-0.27	87.5	0.786	0.945	-0.12	0.09		
	Age delta	0.08	0.04	1.87	150.1	0.063	0.170	-0.01	0.17	Age delta	0.08	0.04	1.84	150.3	0.067	0.173	-0.01	0.17		
Fully adjusted model (R ² = .17)	Height	0.03	0.00	9.08	80.6	0.000	0.000	0.02	0.03	Height	0.03	0.00	9.03	76.4	0.000	0.000	0.02	0.03		
	(Intercept)	-3.69	0.61	-6.08	127.0	0.000	0.000	-4.89	-2.49	(Intercept)	-3.60	0.60	-6.02	133.6	0.000	0.000	-4.79	-2.42		
	SBP (z-score)	-0.03	0.02	-1.58	134.3	0.117	0.324	-0.06	0.01	DBP (z-score)	-0.03	0.02	-1.89	188.9	0.060	0.098	-0.06	0.00		
	Female sex	-0.71	0.03	-23.68	208.5	0.000	0.000	-0.76	-0.65	Female sex	-0.70	0.03	-23.67	209.2	0.000	0.000	-0.76	-0.65		
	Age at MRI	0.05	0.06	0.92	79.3	0.360	0.617	-0.06	0.16	Age at MRI	0.05	0.06	0.92	80.4	0.358	0.614	-0.06	0.16		
	Age delta	0.03	0.05	0.59	130.2	0.553	0.603	-0.06	0.12	Age delta	0.03	0.05	0.61	133.1	0.546	0.596	-0.06	0.12		
Base model (R ² = .15)	Height	0.02	0.00	7.32	74.6	0.000	0.000	0.02	0.03	Height	0.02	0.00	7.15	71.8	0.000	0.000	0.02	0.03		
	Non-European ethnicity	-0.21	0.03	-6.31	234.5	0.000	0.000	-0.28	-0.15	Non-European ethnicity	-0.21	0.03	-6.27	245.6	0.000	0.000	-0.28	-0.15		
	BMI (z-score)	0.06	0.02	4.02	213.0	0.000	0.000	0.03	0.09	BMI (z-score)	0.06	0.02	3.70	149.6	0.000	0.000	0.03	0.09		
	Parental education	0.02	0.01	2.94	93.8	0.004	0.008	0.01	0.04	Parental education	0.02	0.01	2.92	94.8	0.004	0.008	0.01	0.04		
	Maternal age	0.00	0.00	1.15	208.2	0.250	0.479	0.00	0.01	Maternal age	0.00	0.00	1.10	204.1	0.273	0.504	0.00	0.01		
	Cortical grey matter volume										Cortical grey matter volume									
Base model (R ² = .15)	(Intercept)	-0.63	0.50	-1.25	1031.1	0.212	0.212	-1.61	0.36	(Intercept)	-0.44	0.49	-0.90	1126.0	0.370	0.370	-1.41	0.53		
	SBP (z-score)	-0.05	0.02	-3.03	170.7	0.003	0.036	-0.08	-0.02	DBP (z-score)	-0.05	0.02	-3.49	178.3	0.001	0.012	-0.08	-0.02		
	Female sex	-0.71	0.03	-21.35	102.2	0.000	0.000	-0.78	-0.65	Female sex	-0.71	0.03	-21.26	101.9	0.000	0.000	-0.78	-0.64		
	Age at MRI	-0.16	0.05	-3.51	239.5	0.001	0.012	-0.25	-0.07	Age at MRI	-0.16	0.05	-3.51	258.5	0.001	0.012	-0.25	-0.07		
	Age delta	0.10	0.05	2.21	148.7	0.028	0.170	0.01	0.19	Age delta	0.10	0.04	2.21	151.9	0.028	0.173	0.01	0.19		
	Height	0.02	0.00	7.94	129.0	0.000	0.000	0.02	0.03	Height	0.02	0.00	7.56	123.6	0.000	0.000	0.01	0.02		
Fully adjusted model (R ² = .17)	(Intercept)	-1.31	0.52	-2.51	615.7	0.012	0.021	-2.33	-0.28	(Intercept)	-1.16	0.52	-2.25	679.2	0.025	0.043	-2.17	-0.15		
	SBP (z-score)	-0.05	0.02	-2.76	209.3	0.006	0.036	-0.08	-0.01	DBP (z-score)	-0.04	0.02	-2.63	165.1	0.009	0.054	-0.07	-0.01		
	Female sex	-0.71	0.03	-21.65	101.7	0.000	0.000	-0.78	-0.65	Female sex	-0.71	0.03	-21.58	100.1	0.000	0.000	-0.78	-0.65		
	Age at MRI	-0.08	0.05	-1.63	219.0	0.105	0.414	-0.17	0.02	Age at MRI	-0.08	0.05	-1.65	236.0	0.101	0.408	-0.17	0.02		
	Age delta	0.03	0.04	0.60	146.9	0.547	0.603	-0.06	0.12	Age delta	0.03	0.04	0.63	150.2	0.529	0.596	-0.06	0.12		
	Height	0.02	0.00	6.21	145.2	0.000	0.000	0.01	0.02	Height	0.02	0.00	5.89	143.1	0.000	0.000	0.01	0.02		
Base model (R ² = .13)	Non-European ethnicity	-0.25	0.03	-7.31	198.5	0.000	0.000	-0.32	-0.18	Non-European ethnicity	-0.25	0.03	-7.20	194.4	0.000	0.000	-0.32	-0.18		
	BMI (z-score)	0.05	0.02	2.95	188.6	0.004	0.006	0.02	0.08	BMI (z-score)	0.04	0.02	2.44	168.0	0.016	0.024	0.01	0.07		
	Parental education	0.03	0.01	4.22	225.7	0.000	0.000	0.02	0.04	Parental education	0.03	0.01	4.20	224.0	0.000	0.000	0.02	0.04		
	Maternal age	0.01	0.00	2.24	152.8	0.027	0.162	0.00	0.01	Maternal age	0.01	0.00	2.16	150.9	0.032	0.192	0.00	0.01		
	Sub-cortical grey matter volume										Sub-cortical grey matter volume									
	Base model (R ² = .13)	(Intercept)	-2.08	0.57	-3.67	202.9	0.000	0.000	-3.20	-0.96	(Intercept)	-2.04	0.55	-3.71	233.5	0.000	0.000	-3.13	-0.96	
SBP (z-score)		-0.02	0.02	-0.98	141.0	0.329	0.409	-0.05	0.02	DBP (z-score)	-0.03	0.02	-2.26	269.9	0.024	0.058	-0.06	0.00		
Female sex		-0.66	0.03	-21.40	180.2	0.000	0.000	-0.72	-0.60	Female sex	-0.66	0.03	-21.28	178.7	0.000	0.000	-0.72	-0.60		
Age at MRI		-0.07	0.05	-1.35	125.7	0.180	0.414	-0.17	0.03	Age at MRI	-0.07	0.05	-1.32	126.4	0.189	0.408	-0.17	0.03		
Age delta		0.09	0.05	1.85	126.7	0.066	0.170	-0.01	0.18	Age delta	0.08	0.05	1.81	125.6	0.072	0.173	-0.01	0.18		
Height		0.02	0.00	7.81	91.1	0.000	0.000	0.02	0.03	Height	0.02	0.00	7.89	90.4	0.000	0.000	0.02	0.03		
Fully adjusted model (R ² = .15)	(Intercept)	-2.49	0.58	-4.26	187.7	0.000	0.000	-3.64	-1.33	(Intercept)	-2.42	0.57	-4.22	211.8	0.000	0.000	-3.55	-1.29		
	SBP (z-score)	-0.02	0.02	-1.26	130.1	0.209	0.379	-0.06	0.01	DBP (z-score)	-0.03	0.02	-1.86	321.9	0.065	0.098	-0.06	0.00		
	Female sex	-0.66	0.03	-21.50	179.2	0.000	0.000	-0.72	-0.60	Female sex	-0.66	0.03	-21.47	179.6	0.000	0.000	-0.72	-0.60		
	Age at MRI	-0.01	0.05	-0.09	113.7	0.927	0.944	-0.11	0.10	Age at MRI	-0.01	0.05	-0.09	116.3	0.927	0.945	-0.11	0.10		
	Age delta	0.03	0.05	0.68	117.0	0.498	0.603	-0.06	0.13	Age delta	0.03	0.05	0.68	118.1	0.496	0.596	-0.06	0.12		
	Height	0.02	0.00	6.14	85.1	0.000	0.000	0.01	0.02	Height	0.02	0.00	6.03	82.8	0.000	0.000	0.01	0.02		
Base model (R ² = .13)	Non-European ethnicity	-0.18	0.04	-5.09	151.1	0.000	0.000	-0.26	-0.11	Non-European ethnicity	-0.18	0.04	-5.04	150.9	0.000	0.000	-0.25	-0.11		
	BMI (z-score)	0.06	0.02	3.69	140.8	0.000	0.000	0.03	0.10	BMI (z-score)	0.06	0.02	3.67	156.9	0.000	0.000	0.03	0.09		
	Parental education	0.03	0.01	3.49	118.8	0.001	0.003	0.01	0.04	Parental education	0.03	0.01	3.45	117.8	0.001	0.003	0.01	0.04		
	Maternal age	0.00	0.00	1.04	100.5	0.299	0.479	0.00	0.01	Maternal age	0.00	0.00	1.00	100.4	0.319	0.504	0.00	0.01		
	White matter volume										White matter volume									
	Base model (R ² = .13)	(Intercept)	-3.18	0.55	-5.75	256.4	0.000	0.000	-4.27	-2.09	(Intercept)	-3.10	0.54	-5.78	315.4	0.000	0.000	-4.16	-2.04	
SBP (z-score)		-0.03	0.02	-1.50	155.3	0.135	0.324	-0.06	0.01	DBP (z-score)	-0.04	0.02	-2.36	233.4	0.019	0.058	-0.07	-0.01		
Female sex		-0.65	0.03	-21.29	194.7	0.000	0.000	-0.71	-0.59	Female sex	-0.65	0.03	-21.14	189.4	0.000	0.000	-0.71	-0.59		
Age at MRI		0.02	0.05	0.41	115.1	0.683	0.944	-0.08	0.12	Age at MRI	0.02	0.05	0.43	120.4	0.665	0.945	-0.08	0.12		
Age delta		0.06	0.05	1.20	107.1	0.233	0.360	-0.04	0.15	Age delta	0.06	0.05	1.19	110.6	0.239	0.364	-0.04	0.15		
Height		0.02	0.00	8.25	134.8	0.000	0.000	0.02	0.03	Height	0.02	0.00	7.97	116.0	0.000	0.000	0.02	0.03		
Fully adjusted model (R ² = .14)	(Intercept)	-3.45	0.57	-6.05	240.5	0.000	0.000	-4.57	-2.33	(Intercept)	-3.34	0.56	-5.98	279.0	0.000	0.000	-4.44	-2.24		
	SBP (z-score)	-0.03	0.02	-1.96	189.3	0.051	0.204	-0.07	0.00	DBP (z-score)	-0.03	0.02	-2.03	225.9	0.044	0.088	-0.06	0.00		
	Female sex	-0.65	0.03	-21.32	191.5	0.000	0.000	-0.71	-0.59	Female sex	-0.65	0.03	-21.20	183.1	0.000	0.000	-0.71	-0.59		
	Age at MRI	0.08	0.05	1.49	112.1	0.139	0.414	-0.03	0.18	Age at MRI	0.08	0.05	1.50	116.6	0.137	0.408	-0.03	0.18		
	Age delta	0.01	0.05	0.19	108.9	0.853	0.853	-0.09	0.10	Age delta	0.01	0.05	0.20	111.9	0.840	0.840	-0.08	0.10		
	Height	0.02	0.00	6.84	162.8	0.000	0.000	0.01	0.02	Height	0.02	0.00	6.59	151.3	0.000	0.000	0.01	0.02		
Base model (R ² = .01)	Non-European ethnicity	-0.19	0.03	-5.85	401.3	0.000	0.000	-0.26	-0.13	Non-European ethnicity	-0.19	0.03	-5.78	406.3	0.000	0.000	-0.25	-0.13		
	BMI (z-score)	0.06	0.02	3.80	194.4	0.000	0.000	0.03	0.09	BMI (z-score)	0.06	0.02	3.48	158.7	0.001	0.002	0.02	0.09		
	Parental education	0.02	0.01	2.23	120.1	0.028	0.042	0.00	0.03	Parental education	0.02	0.01	2.21	117.6	0.029	0.044	0.00	0.03		
	Maternal age	0.00	0.00	0.97	141.2	0.334	0.479	0.00	0.01	Maternal age	0.00	0.00	0.92	142.4	0.359	0.504	0.00	0.01		
	Ventricles volume										Ventricles volume									
	Base model (R ² = .01)	(Intercept)	-1.31	0.65	-2.03	119.9	0.045	0.068	-2.60	-0.03	(Intercept)	-1.40	0.64	-2.17	116.2	0.032	0.048	-2.67	-0.12	
SBP (z-score)		0																		

Table S8 - Subcortical brain regions

CAROTID INTIMA-MEDIA THICKNESS (IMT)										CAROTID DISTENSIBILITY									
	Predictor	Beta	SE	Statistic	Df	P _{adjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{adjusted}	P _{FDR}	LCI	UCI
Base model (R ² = .14)	Accumbens									Base model (R ² = .14)	Accumbens								
	(Intercept)	-3.42	0.58	-5.88	189.4	0.000	0.000	-4.57	-2.27		(Intercept)	-3.53	0.57	-6.18	219.7	0.000	0.000	-4.66	-2.41
	IMT (z-score)	0.03	0.02	1.83	86.2	0.070	0.490	0.00	0.07		Distensibility (z-score)	0.00	0.02	0.20	114.4	0.842	0.981	-0.03	0.04
	Female sex	-0.08	0.03	-2.37	158.2	0.019	0.022	-0.15	-0.01		Female sex	-0.09	0.03	-2.55	160.9	0.012	0.014	-0.15	-0.02
	Age at MRI	-0.06	0.05	-1.23	104.5	0.223	0.588	-0.17	0.04		Age at MRI	-0.06	0.05	-1.21	103.9	0.229	0.588	-0.17	0.04
	Age delta	0.00	0.05	0.03	96.4	0.997	0.997	-0.10	0.10		Age delta	0.00	0.05	0.05	95.6	0.941	0.998	-0.10	0.00
	Height	0.00	0.00	0.50	84.0	0.617	0.785	0.00	0.01		Height	0.00	0.00	0.74	88.4	0.460	0.644	0.00	0.01
	TV	0.00	0.00	21.71	288.2	0.000	0.000	0.00	0.00		TV	0.00	0.00	21.83	295.7	0.000	0.000	0.00	0.00
Fully adjusted model (R ² = .14)	Accumbens									Fully adjusted model (R ² = .14)	Accumbens								
	(Intercept)	-3.49	0.61	-5.75	177.1	0.000	0.000	-4.69	-2.29		(Intercept)	-3.60	0.60	-6.02	202.5	0.000	0.000	-4.77	-2.42
	IMT (z-score)	0.03	0.02	1.88	89.7	0.064	0.490	0.00	0.07		Distensibility (z-score)	0.00	0.02	0.11	105.2	0.911	0.981	-0.03	0.04
	Female sex	-0.08	0.03	-2.40	155.4	0.017	0.022	-0.15	-0.01		Female sex	-0.09	0.03	-2.57	158.1	0.011	0.014	-0.15	-0.02
	Age at MRI	-0.06	0.05	-1.10	101.4	0.274	0.588	-0.17	0.05		Age at MRI	-0.06	0.05	-1.09	100.7	0.277	0.588	-0.17	0.05
	Age delta	0.00	0.05	0.00	90.7	0.997	0.997	-0.10	0.10		Age delta	0.00	0.05	0.00	90.1	0.998	0.998	-0.10	0.10
	Height	0.00	0.00	0.55	91.5	0.584	0.785	0.00	0.01		Height	0.00	0.00	0.77	96.8	0.441	0.644	0.00	0.01
	TV	0.00	0.00	21.17	257.3	0.000	0.000	0.00	0.00		TV	0.00	0.00	21.78	255.5	0.000	0.000	0.00	0.00
Base model (R ² = .25)	Amygdala									Base model (R ² = .25)	Amygdala								
	(Intercept)	-4.87	0.56	-8.64	140.8	0.000	0.000	-5.99	-3.76		(Intercept)	-4.94	0.57	-8.68	131.0	0.000	0.000	-6.06	-3.81
	IMT (z-score)	0.01	0.02	0.67	91.4	0.502	0.879	-0.02	0.04		Distensibility (z-score)	0.01	0.02	0.78	92.6	0.435	0.981	-0.02	0.05
	Female sex	-0.19	0.03	-5.57	104.3	0.000	0.000	-0.25	-0.12		Female sex	-0.19	0.03	-5.57	93.5	0.000	0.000	-0.26	-0.12
	Age at MRI	-0.03	0.05	-0.61	104.7	0.542	0.876	-0.13	0.07		Age at MRI	-0.03	0.05	-0.61	105.0	0.542	0.866	-0.13	0.07
	Age delta	-0.01	0.04	-0.26	130.0	0.793	0.958	-0.10	0.07		Age delta	-0.01	0.04	-0.28	133.3	0.781	0.967	-0.10	0.07
	Height	0.00	0.00	-0.15	60.9	0.882	0.882	-0.01	0.01		Height	0.00	0.00	0.01	55.5	0.989	0.989	-0.01	0.01
	TV	0.00	0.00	28.74	152.0	0.000	0.000	0.00	0.00		TV	0.00	0.00	28.78	151.8	0.000	0.000	0.00	0.00
Fully adjusted model (R ² = .25)	Amygdala									Fully adjusted model (R ² = .25)	Amygdala								
	(Intercept)	-4.92	0.59	-8.36	130.6	0.000	0.000	-6.09	-3.76		(Intercept)	-4.99	0.59	-8.42	124.8	0.000	0.000	-6.16	-3.81
	IMT (z-score)	0.01	0.02	0.72	92.6	0.474	0.879	-0.02	0.04		Distensibility (z-score)	0.02	0.02	0.93	92.9	0.353	0.981	-0.02	0.05
	Female sex	-0.19	0.03	-5.68	104.2	0.000	0.000	-0.26	-0.12		Female sex	-0.20	0.03	-5.69	93.5	0.000	0.000	-0.26	-0.13
	Age at MRI	-0.01	0.05	-0.20	94.8	0.845	0.919	-0.11	0.09		Age at MRI	-0.01	0.05	-0.20	95.1	0.841	0.915	-0.11	0.09
	Age delta	-0.03	0.04	-0.63	123.0	0.528	0.958	-0.11	0.06		Age delta	-0.03	0.04	-0.65	126.0	0.518	0.967	-0.11	0.06
	Height	0.00	0.00	-0.61	60.8	0.546	0.785	-0.01	0.00		Height	0.00	0.00	-0.45	57.4	0.568	0.587	-0.01	0.00
	TV	0.00	0.00	28.43	168.4	0.000	0.000	0.00	0.00		TV	0.00	0.00	28.52	169.8	0.000	0.000	0.00	0.00
Base model (R ² = .19)	Caudate									Base model (R ² = .19)	Caudate								
	(Intercept)	-4.33	0.57	-7.54	166.4	0.000	0.000	-5.46	-3.19		(Intercept)	-4.35	0.57	-7.60	166.6	0.000	0.000	-5.48	-3.22
	IMT (z-score)	0.00	0.02	0.04	70.4	0.802	0.936	-0.03	0.04		Distensibility (z-score)	0.01	0.02	0.29	104.7	0.774	0.981	-0.03	0.04
	Female sex	-0.06	0.03	-1.75	110.3	0.083	0.083	-0.13	0.01		Female sex	-0.06	0.04	-1.78	104.2	0.078	0.078	-0.13	0.01
	Age at MRI	-0.07	0.05	-1.30	109.9	0.197	0.588	-0.17	0.03		Age at MRI	-0.07	0.05	-1.30	110.1	0.198	0.588	-0.17	0.03
	Age delta	0.04	0.04	0.89	129.5	0.375	0.958	-0.05	0.13		Age delta	0.04	0.04	0.88	130.5	0.379	0.967	-0.05	0.13
	Height	0.00	0.00	0.21	161.5	0.836	0.882	0.00	0.01		Height	0.00	0.00	0.28	162.8	0.778	0.836	0.00	0.01
	TV	0.00	0.00	25.70	170.8	0.000	0.000	0.00	0.00		TV	0.00	0.00	25.67	167.7	0.000	0.000	0.00	0.00
Fully adjusted model (R ² = .19)	Caudate									Fully adjusted model (R ² = .19)	Caudate								
	(Intercept)	-4.41	0.59	-7.44	165.0	0.000	0.000	-5.59	-3.24		(Intercept)	-4.44	0.59	-7.48	163.4	0.000	0.000	-5.61	-3.26
	IMT (z-score)	0.01	0.02	0.28	72.3	0.778	0.936	-0.03	0.04		Distensibility (z-score)	0.00	0.02	0.15	112.8	0.883	0.981	-0.03	0.04
	Female sex	-0.06	0.04	-1.86	109.4	0.066	0.071	-0.13	0.00		Female sex	-0.07	0.04	-1.87	103.9	0.064	0.069	-0.14	0.00
	Age at MRI	-0.06	0.05	-1.06	100.5	0.294	0.588	-0.16	0.05		Age at MRI	-0.06	0.05	-1.06	102.6	0.294	0.588	-0.16	0.05
	Age delta	0.03	0.05	0.70	120.9	0.488	0.958	-0.06	0.12		Age delta	0.03	0.05	0.69	121.0	0.490	0.967	-0.06	0.12
	Height	0.00	0.00	0.23	129.1	0.816	0.882	0.00	0.01		Height	0.00	0.00	0.29	133.7	0.775	0.838	0.00	0.01
	TV	0.00	0.00	24.98	157.5	0.000	0.000	0.00	0.00		TV	0.00	0.00	24.94	154.2	0.000	0.000	0.00	0.00
Base model (R ² = .26)	Hippocampus									Base model (R ² = .26)	Hippocampus								
	(Intercept)	-5.87	0.55	-10.63	156.0	0.000	0.000	-6.96	-4.78		(Intercept)	-5.89	0.55	-10.61	171.4	0.000	0.000	-6.97	-4.82
	IMT (z-score)	0.01	0.02	0.35	60.3	0.726	0.936	-0.03	0.04		Distensibility (z-score)	0.00	0.02	0.00	80.5	0.998	0.998	-0.03	0.03
	Female sex	-0.14	0.03	-4.70	183.6	0.000	0.000	-0.20	-0.08		Female sex	-0.15	0.03	-4.74	184.3	0.000	0.000	-0.21	-0.09
	Age at MRI	-0.02	0.04	-0.48	198.5	0.630	0.882	-0.11	0.07		Age at MRI	-0.02	0.04	-0.48	199.1	0.632	0.885	-0.11	0.07
	Age delta	0.01	0.04	0.25	151.4	0.804	0.958	-0.07	0.09		Age delta	0.01	0.04	0.25	152.3	0.805	0.967	-0.07	0.09
	Height	0.00	0.00	1.50	92.9	0.138	0.454	0.00	0.01		Height	0.00	0.00	1.53	89.7	0.129	0.324	0.00	0.01
	TV	0.00	0.00	27.32	90.0	0.000	0.000	0.00	0.00		TV	0.00	0.00	27.36	90.2	0.000	0.000	0.00	0.00
Fully adjusted model (R ² = .26)	Hippocampus									Fully adjusted model (R ² = .26)	Hippocampus								
	(Intercept)	-6.05	0.58	-10.48	143.5	0.000	0.000	-7.19	-4.91		(Intercept)	-6.07	0.57	-10.68	156.7	0.000	0.000	-7.20	-4.95
	IMT (z-score)	0.01	0.02	0.36	60.6	0.720	0.936	-0.03	0.04		Distensibility (z-score)	0.00	0.02	0.22	79.3	0.824	0.981	-0.03	0.04
	Female sex	-0.15	0.03	-4.83	190.6	0.000	0.000	-0.21	-0.09		Female sex	-0.15	0.03	-4.83	191.1	0.000	0.000	-0.21	-0.09
	Age at MRI	0.01	0.05	0.11	185.0	0.912	0.919	-0.08	0.09		Age at MRI	0.01	0.05	0.11	184.0	0.912	0.915	-0.08	0.09
	Age delta	-0.01	0.04	-0.27	152.2	0.785	0.958	-0.09	0.07		Age delta	-0.01	0.04	-0.28	151.1	0.782	0.967	-0.09	0.07
	Height	0.00	0.00	0.70	91.7	0.486	0.785	0.00	0.01		Height	0.00	0.00	0.77	92.2	0.444	0.644	0.00	0.01
	TV	0.00	0.00	27.12	98.5	0.000	0.000	0.00	0.00		TV	0.00	0.00	27.16	98.8	0.000	0.000	0.00	0.00
Base model (R ² = .25)	Pallidum									Base model (R ² = .25)	Pallidum								
	(Intercept)	-6.37	0.57	-11.16	129.5	0.000	0.000	-7.50	-5.24		(Intercept)	-6.47	0.56	-11.47	140.1	0.000	0.000	-7.58	-5.35
	IMT (z-score)	0.02	0.02	1.37	126.4	0.174	0.679	-0.01	0.05		Distensibility (z-score)	0.01	0.02	0.68	92.1	0.498	0.981	-0.02	0.04
	Female sex	-0.17	0.03	-5.01	99.2	0.000	0.000	-0.24	-0.10		Female sex	-0.18	0.03	-5.13	95.3	0.000	0.000	-0.24	-0.11
	Age	-0.01	0.05	-0.19	178.0	0.851	0.919	-0.10	0.08		Age at MRI	-0.01	0.05	-0.18	176.9	0.856	0.915	-0.10	0.08
	Height	0.03	0.04	0.62	156.0	0.533	0.958	-0.06	0.11		Age delta	0.03	0.04	0.61	162.1	0.541	0.967	-0.06	0.11
	TV	0.00	0.00	3.05	89.6	0.003	0.035	0.00	0.01		Height	0.01	0.00	3.28	89.7	0.001	0.014	0.00	0.01
	TV	0.00	0.00	27.56	131.2	0.000	0.000	0.00	0.00		TV	0.00	0.00	27.66	132.2	0.000	0.000	0.00	0.00
Fully adjusted model (R ² = .25)	Pallidum									Fully adjusted model (R ² = .25)	Pallidum								
	(Intercept)	-6.39	0.59	-10.86	133.1	0.000	0.000												

Table S8 - Subcortical brain regions (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)											DIASTOLIC BLOOD PRESSURE (DBP)										
	Predictor	Beta	SE	Statistic	Df	P _{adjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{adjusted}	P _{FDR}	LCI	UCI		
Base model (R ² = .14)	Accumbens										Base model (R ² = .14)	Accumbens									
	(Intercept)	-3.54	0.59	-6.00	182.6	0.000	0.000	-4.70	-2.38	(Intercept)		-3.52	0.58	-6.10	201.3	0.000	0.000	-4.66	-2.38		
	SBP (z-score)	0.00	0.02	-0.13	81.6	0.896	0.988	-0.04	0.03	DBP (z-score)		0.00	0.02	0.21	70.1	0.832	0.832	-0.03	0.04		
	Female sex	-0.09	0.03	-2.53	164.8	0.012	0.014	-0.15	-0.02	Female sex		-0.09	0.03	-2.54	156.8	0.012	0.014	-0.15	-0.02		
	Age at MRI	-0.06	0.05	-1.21	103.5	0.231	0.580	-0.17	0.04	Age at MRI		-0.06	0.05	-1.22	104.1	0.227	0.580	-0.17	0.04		
	Age delta	0.00	0.05	0.07	94.5	0.942	0.996	-0.09	0.10	Age delta		0.00	0.05	0.09	95.4	0.931	0.993	-0.09	0.10		
	Height	0.00	0.00	0.73	83.9	0.470	0.658	0.00	0.01	Height		0.00	0.00	0.71	87.5	0.480	0.672	0.00	0.01		
	TV	0.00	0.00	21.75	284.0	0.000	0.000	0.00	0.00	TV		0.00	0.00	21.68	273.9	0.000	0.000	0.00	0.00		
	Non-European ethnicity	-0.01	0.04	-0.28	98.4	0.783	0.914	-0.09	0.07	Non-European ethnicity		-0.01	0.04	-0.29	98.3	0.776	0.905	-0.09	0.07		
	BMI (z-score)	-0.01	0.02	-0.47	117.0	0.643	0.698	-0.04	0.03	BMI (z-score)		-0.01	0.02	-0.47	10.9	0.636	0.742	-0.04	0.03		
Fully adjusted model (R ² = .14)	Accumbens										Fully adjusted model (R ² = .14)	Accumbens									
	(Intercept)	-3.58	0.61	-5.89	175.6	0.000	0.000	-4.79	-2.38	(Intercept)		-3.59	0.60	-5.98	191.1	0.000	0.000	-4.77	-2.41		
	SBP (z-score)	0.00	0.02	0.10	119.5	0.922	0.988	-0.03	0.04	DBP (z-score)		0.01	0.02	0.34	82.5	0.734	0.832	-0.03	0.04		
	Female sex	-0.09	0.03	-2.58	163.7	0.011	0.014	-0.15	-0.02	Female sex		-0.09	0.03	-2.58	154.2	0.011	0.014	-0.15	-0.02		
	Age at MRI	-0.06	0.05	-1.09	100.3	0.276	0.580	-0.17	0.05	Age at MRI		-0.06	0.05	-1.10	101.1	0.275	0.580	-0.17	0.05		
	Age delta	0.00	0.05	0.01	89.0	0.996	0.996	-0.10	0.10	Age delta		0.00	0.05	0.01	89.8	0.993	0.993	-0.10	0.10		
	Height	0.00	0.00	0.73	90.5	0.468	0.658	0.00	0.01	Height		0.00	0.00	0.75	94.6	0.454	0.672	0.00	0.01		
	TV	0.00	0.00	21.20	250.6	0.000	0.000	0.00	0.00	TV		0.00	0.00	21.17	246.9	0.000	0.000	0.00	0.00		
	Non-European ethnicity	-0.01	0.04	-0.28	98.4	0.783	0.914	-0.09	0.07	Non-European ethnicity		-0.01	0.04	-0.29	97.7	0.776	0.905	-0.09	0.07		
	Parental education	0.00	0.01	0.49	110.9	0.626	0.626	-0.01	0.02	Parental education		0.00	0.01	0.50	109.9	0.615	0.615	-0.01	0.02		
Maternal age	0.00	0.00	-0.21	172.6	0.836	0.975	-0.01	0.01	Maternal age	0.00	0.00	-0.20	172.7	0.843	0.984	-0.01	0.01				
Base model (R ² = .25)	Amygdala										Base model (R ² = .25)	Amygdala									
	(Intercept)	-4.90	0.59	-8.26	106.8	0.000	0.000	-6.08	-3.73	(Intercept)		-4.92	0.57	-8.61	126.6	0.000	0.000	-6.05	-3.79		
	SBP (z-score)	0.00	0.02	0.03	70.3	0.973	0.988	-0.04	0.04	DBP (z-score)		-0.01	0.02	-0.75	88.2	0.455	0.759	-0.04	0.02		
	Female sex	-0.19	0.03	-5.63	104.0	0.000	0.000	-0.26	-0.12	Female sex		-0.19	0.03	-5.57	101.9	0.000	0.000	-0.25	-0.12		
	Age at MRI	-0.03	0.05	-0.61	101.6	0.547	0.884	-0.13	0.07	Age at MRI		-0.03	0.05	-0.59	103.3	0.558	0.891	-0.13	0.07		
	Age delta	-0.01	0.04	-0.26	124.0	0.795	0.971	-0.10	0.07	Age delta		-0.01	0.04	-0.27	125.0	0.772	0.992	-0.10	0.07		
	Height	0.00	0.00	0.09	59.3	0.933	0.933	-0.01	0.01	Height		0.00	0.00	0.05	59.6	0.963	0.963	-0.01	0.01		
	TV	0.00	0.00	28.79	152.7	0.000	0.000	0.00	0.00	TV		0.00	0.00	28.90	159.0	0.000	0.000	0.00	0.00		
	Non-European ethnicity	-0.06	0.04	-1.67	130.0	0.098	0.343	-0.13	0.01	Non-European ethnicity		-0.06	0.04	-1.66	134.2	0.100	0.350	-0.13	0.01		
	BMI (z-score)	0.02	0.02	1.43	91.7	0.158	0.322	-0.01	0.06	BMI (z-score)		0.02	0.02	1.50	90.0	0.138	0.312	-0.01	0.06		
Fully adjusted model (R ² = .25)	Amygdala										Fully adjusted model (R ² = .25)	Amygdala									
	(Intercept)	-4.97	0.61	-8.16	108.2	0.000	0.000	-6.18	-3.76	(Intercept)		-4.96	0.59	-8.37	123.0	0.000	0.000	-6.13	-3.79		
	SBP (z-score)	0.00	0.02	-0.18	78.4	0.861	0.988	-0.04	0.03	DBP (z-score)		-0.01	0.02	-0.70	97.2	0.486	0.759	-0.04	0.02		
	Female sex	-0.19	0.03	-5.73	104.2	0.000	0.000	-0.26	-0.13	Female sex		-0.19	0.03	-5.67	101.7	0.000	0.000	-0.26	-0.12		
	Age at MRI	-0.01	0.05	-0.19	93.1	0.848	0.925	-0.11	0.09	Age at MRI		-0.01	0.05	-0.19	94.7	0.850	0.928	-0.11	0.09		
	Age delta	-0.03	0.04	-0.63	118.7	0.528	0.971	-0.11	0.06	Age delta		-0.03	0.04	-0.65	122.6	0.520	0.992	-0.11	0.06		
	Height	0.00	0.00	-0.50	59.9	0.619	0.788	-0.01	0.00	Height		0.00	0.00	-0.52	60.7	0.606	0.771	-0.01	0.00		
	TV	0.00	0.00	28.49	169.7	0.000	0.000	0.00	0.00	TV		0.00	0.00	28.82	177.0	0.000	0.000	0.00	0.00		
	Non-European ethnicity	-0.06	0.04	-1.67	130.0	0.098	0.343	-0.13	0.01	Non-European ethnicity		-0.06	0.04	-1.66	134.2	0.100	0.350	-0.13	0.01		
	Parental education	0.01	0.01	1.07	125.2	0.285	0.448	-0.01	0.02	Parental education		0.01	0.01	1.04	123.1	0.302	0.466	-0.01	0.02		
Maternal age	0.00	0.00	0.53	108.2	0.601	0.967	-0.01	0.01	Maternal age	0.00	0.00	0.51	106.8	0.614	0.984	-0.01	0.01				
Base model (R ² = .19)	Caudate										Base model (R ² = .19)	Caudate									
	(Intercept)	-4.33	0.57	-7.60	188.6	0.000	0.000	-5.45	-3.20	(Intercept)		-4.33	0.57	-7.58	167.5	0.000	0.000	-5.46	-3.20		
	SBP (z-score)	0.00	0.02	0.18	188.9	0.859	0.988	-0.03	0.03	DBP (z-score)		0.01	0.02	0.45	90.3	0.656	0.832	-0.03	0.04		
	Female sex	-0.06	0.03	-1.78	109.9	0.077	0.077	-0.13	0.01	Female sex		-0.06	0.04	-1.79	107.0	0.076	0.076	-0.13	0.01		
	Age at MRI	-0.07	0.05	-1.30	111.7	0.196	0.580	-0.17	0.03	Age at MRI		-0.07	0.05	-1.31	116.0	0.194	0.580	-0.17	0.03		
	Age delta	0.04	0.04	0.90	131.8	0.372	0.971	-0.05	0.13	Age delta		0.04	0.04	0.91	129.8	0.367	0.992	-0.05	0.13		
	Height	0.00	0.00	0.19	157.4	0.847	0.933	0.00	0.01	Height		0.00	0.00	0.22	167.8	0.827	0.891	0.00	0.01		
	TV	0.00	0.00	25.64	166.4	0.000	0.000	0.00	0.00	TV		0.00	0.00	25.58	163.3	0.000	0.000	0.00	0.00		
	Non-European ethnicity	-0.02	0.04	-0.56	118.0	0.574	0.914	-0.09	0.05	Non-European ethnicity		-0.02	0.04	-0.57	114.3	0.561	0.905	-0.10	0.05		
	BMI (z-score)	-0.01	0.02	-0.79	103.5	0.432	0.605	-0.05	0.02	BMI (z-score)		-0.01	0.02	-0.70	106.4	0.487	0.682	-0.04	0.02		
Fully adjusted model (R ² = .19)	Caudate										Fully adjusted model (R ² = .19)	Caudate									
	(Intercept)	-4.39	0.59	-7.46	178.3	0.000	0.000	-5.55	-3.23	(Intercept)		-4.43	0.59	-7.47	162.6	0.000	0.000	-5.60	-3.26		
	SBP (z-score)	0.01	0.02	0.69	209.2	0.489	0.988	-0.02	0.04	DBP (z-score)		0.01	0.02	0.70	89.1	0.488	0.759	-0.02	0.05		
	Female sex	-0.07	0.04	-1.92	108.4	0.058	0.062	-0.14	0.00	Female sex		-0.07	0.04	-1.91	105.2	0.058	0.062	-0.14	0.00		
	Age at MRI	-0.06	0.05	-1.06	101.5	0.290	0.580	-0.16	0.05	Age at MRI		-0.06	0.05	-1.06	101.6	0.290	0.580	-0.16	0.05		
	Age delta	0.03	0.05	0.72	122.7	0.474	0.971	-0.06	0.12	Age delta		0.03	0.05	0.72	122.2	0.474	0.992	-0.06	0.12		
	Height	0.00	0.00	0.15	129.5	0.881	0.933	-0.01	0.01	Height		0.00	0.00	0.25	129.4	0.806	0.891	0.00	0.01		
	TV	0.00	0.00	24.95	154.2	0.000	0.000	0.00	0.00	TV		0.00	0.00	24.93	153.2	0.000	0.000	0.00	0.00		
	Non-European ethnicity	-0.02	0.04	-0.56	118.0	0.574	0.914	-0.09	0.05	Non-European ethnicity		-0.02	0.04	-0.58	114.3	0.561	0.905	-0.10	0.05		
	Parental education	0.01	0.01	1.80	139.0	0.075	0.276	0.00	0.03	Parental education		0.01	0.01	1.80	135.5	0.074	0.312	0.00	0.03		
Maternal age	0.00	0.00	-1.09	183.0	0.279	0.950	-0.01	0.01	Maternal age	0.00	0.00	-1.06	179.1	0.289	0.984	-0.01	0.01				
Base model (R ² = .26)	Hippocampus										Base model (R ² = .26)	Hippocampus									
	(Intercept)	-5.92	0.55	-10.86	183.2	0.000	0.000	-7.00	-4.85	(Intercept)		-5.92	0.54	-10.91	173.9	0.000	0.000	-6.99	-4.85		
	SBP (z-score)	-0.01	0.02	-0.39	140.4	0.697	0.988	-0.04	0.02	DBP (z-score)		-0.01	0.02	-0.51	93.5	0.449	0.656	-0.04	0.02		
	Female sex	-0.14	0.03	-4.73	183.9	0.000	0.000	-0.21	-0.08	Female sex		-0.14	0.03	-4.71	202.0	0.000	0.000	-0.20	-0.08		
	Age at MRI	-0.02	0.04	-0.47	106.3	0.638	0.893	-0.11	0.07	Age at MRI		-0.02	0.04	-0.44	202.0	0.662	0.927	-0.11	0.07		
	Age delta	0.01	0.04	0.23	152.2	0.817	0.971	-0.07	0.09	Age delta		0.01	0.04	0.19	152.5	0.850	0.992	-0.07	0.09		
	Height	0.00	0.00	1.64	107.9	0.104	0.329	0.00	0.01	Height		0.00	0.00	1.65	99.9	0.103	0.348	0.00			

Table S9 - White matter tracts (FA)

CAROTID INTIMA-MEDIA THICKNESS (IMT)										
	Predictor	Beta	SE	Statistic	DF	P _{adjusted}	P _{FDR}	LCI	UCI	
Base model (R ² = 0.1)	Cingulate gyrus (FA)									
	(Intercept)	-1.90	0.78	-2.45	59.9	0.017	0.034	-3.45	-0.35	
	IMT (z-score)	-0.01	0.02	-0.32	75.0	0.750	0.980	-0.05	0.03	
	Female sex	-0.12	0.04	-2.94	81.7	0.004	0.014	-0.20	-0.04	
	Age at MRI	0.09	0.06	1.56	75.8	0.123	0.482	-0.03	0.21	
	Age delta	0.00	0.05	0.01	179.1	0.989	0.989	-0.09	0.09	
	Height	0.00	0.00	-0.19	105.8	0.854	0.992	-0.01	0.01	
	TV	0.00	0.00	3.44	209.5	0.001	0.001	0.00	0.00	
	Non-European ethnicity	-0.16	0.81	-2.04	58.0	0.046	0.080	-3.28	-0.03	
	Parental education	-0.01	0.02	-0.37	75.8	0.710	0.980	-0.05	0.03	
Fully adjusted model (R ² = 0.2)	(Intercept)	-1.66	0.81	-2.04	58.0	0.046	0.080	-3.28	-0.03	
	IMT (z-score)	-0.01	0.02	-0.37	75.8	0.710	0.980	-0.05	0.03	
	Female sex	-0.12	0.04	-2.93	80.8	0.004	0.014	-0.20	-0.04	
	Age at MRI	0.08	0.06	1.38	74.1	0.172	0.482	-0.04	0.21	
	Age delta	0.01	0.05	0.18	162.1	0.860	0.989	-0.09	0.10	
	Height	0.00	0.00	-0.23	133.9	0.821	0.992	-0.01	0.01	
	TV	0.00	0.00	3.46	215.3	0.001	0.001	0.00	0.00	
	Non-European ethnicity	0.01	0.04	0.27	172.9	0.788	0.788	-0.07	0.09	
	BMI (z-score)	0.01	0.02	0.48	93.8	0.636	0.750	-0.03	0.05	
	Parental education	0.01	0.01	0.61	102.6	0.541	0.820	-0.01	0.02	
Base model (R ² = 0.1)	Corico-spinal tract (FA)									
	(Intercept)	-2.23	0.66	-3.36	119.3	0.001	0.003	-3.54	-0.91	
	IMT (z-score)	0.01	0.02	0.49	126.3	0.625	0.980	-0.03	0.04	
	Female sex	0.01	0.04	0.31	74.9	0.756	0.800	-0.07	0.10	
	Age at MRI	0.02	0.06	0.37	80.4	0.713	0.903	-0.10	0.14	
	Age delta	-0.02	0.06	-0.30	65.6	0.769	0.989	-0.13	0.10	
	Height	0.01	0.00	2.05	139.5	0.043	0.602	0.00	0.01	
	TV	0.00	0.00	5.78	218.8	0.000	0.000	0.00	0.00	
	Non-European ethnicity	-2.27	0.70	-3.26	110.5	0.001	0.003	-3.64	-0.89	
	Parental education	0.01	0.02	0.53	119.4	0.600	0.980	-0.03	0.04	
Fully adjusted model (R ² = 0.1)	(Intercept)	-2.27	0.70	-3.26	110.5	0.001	0.003	-3.64	-0.89	
	IMT (z-score)	0.01	0.02	0.53	119.4	0.600	0.980	-0.03	0.04	
	Female sex	0.01	0.04	0.25	74.7	0.800	0.800	-0.07	0.09	
	Age at MRI	0.03	0.06	0.56	77.2	0.576	0.871	-0.09	0.16	
	Age delta	-0.03	0.06	-0.47	65.6	0.642	0.989	-0.14	0.09	
	Height	0.01	0.00	1.66	111.1	0.100	0.700	0.00	0.01	
	TV	0.00	0.00	5.50	219.6	0.000	0.000	0.00	0.00	
	Non-European ethnicity	-0.04	0.04	-1.06	140.6	0.292	0.628	-0.12	0.04	
	BMI (z-score)	0.01	0.02	0.54	58.7	0.594	0.750	-0.03	0.05	
	Parental education	0.00	0.01	0.23	149.5	0.820	0.820	-0.01	0.02	
Base model (R ² = 0.1)	Uncinate fasciculus (FA)									
	(Intercept)	-2.28	0.67	-3.42	108.1	0.001	0.003	-3.60	-0.96	
	IMT (z-score)	0.00	0.02	-0.22	98.0	0.825	0.980	-0.04	0.03	
	Female sex	-0.07	0.04	-1.86	91.4	0.066	0.116	-0.15	0.01	
	Age at MRI	0.00	0.06	0.04	107.8	0.970	0.970	-0.11	0.11	
	Age delta	0.00	0.05	-0.03	116.1	0.980	0.989	-0.10	0.10	
	Height	0.00	0.00	0.63	117.6	0.529	0.992	0.00	0.01	
	TV	0.00	0.00	8.61	87.3	0.000	0.000	0.00	0.00	
	Non-European ethnicity	-2.46	0.68	-3.64	121.0	0.000	0.000	-3.80	-1.12	
	Parental education	0.00	0.02	-0.18	99.5	0.861	0.980	-0.04	0.03	
Fully adjusted model (R ² = 0.4)	(Intercept)	-2.46	0.68	-3.64	121.0	0.000	0.000	-3.80	-1.12	
	IMT (z-score)	0.00	0.02	-0.18	99.5	0.861	0.980	-0.04	0.03	
	Female sex	-0.08	0.04	-1.92	92.0	0.058	0.116	-0.15	0.00	
	Age at MRI	0.02	0.06	0.29	112.0	0.774	0.903	-0.09	0.13	
	Age delta	-0.01	0.05	-0.25	120.5	0.803	0.989	-0.11	0.09	
	Height	0.00	0.00	0.54	114.1	0.591	0.992	0.00	0.01	
	TV	0.00	0.00	8.28	83.6	0.000	0.000	0.00	0.00	
	Non-European ethnicity	-0.03	0.04	-0.74	264.3	0.462	0.647	-0.10	0.05	
	BMI (z-score)	0.00	0.02	-0.22	107.2	0.825	0.825	-0.04	0.03	
	Parental education	0.01	0.01	0.64	118.7	0.527	0.820	-0.01	0.02	
Base model (R ² = 0.1)	Inferior longitudinal fasciculus (FA)									
	(Intercept)	-0.57	0.63	-0.91	182.1	0.364	0.510	-1.81	0.67	
	IMT (z-score)	-0.02	0.02	-0.88	102.8	0.382	0.980	-0.05	0.02	
	Female sex	0.14	0.04	3.62	111.7	0.000	0.000	0.06	0.21	
	Age at MRI	0.01	0.05	0.11	142.5	0.915	0.970	-0.10	0.11	
	Age delta	0.05	0.05	0.95	128.5	0.344	0.989	-0.05	0.14	
	Height	0.00	0.00	-0.38	119.9	0.708	0.992	-0.01	0.00	
	TV	0.00	0.00	1.66	134.1	0.100	0.108	0.00	0.00	
	Non-European ethnicity	-0.86	0.65	-1.32	177.3	0.189	0.294	-2.14	0.43	
	Parental education	-0.02	0.02	-0.81	103.6	0.418	0.980	-0.05	0.02	
Fully adjusted model (R ² = 0.1)	(Intercept)	-0.86	0.65	-1.32	177.3	0.189	0.294	-2.14	0.43	
	IMT (z-score)	-0.02	0.02	-0.81	103.6	0.418	0.980	-0.05	0.02	
	Female sex	0.13	0.04	3.53	114.1	0.001	0.007	0.06	0.21	
	Age at MRI	0.03	0.05	0.49	167.6	0.622	0.871	-0.08	0.13	
	Age delta	0.03	0.05	0.62	142.9	0.537	0.989	-0.07	0.13	
	Height	0.00	0.00	-0.45	141.7	0.655	0.992	-0.01	0.00	
	TV	0.00	0.00	1.35	113.2	0.180	0.180	0.00	0.00	
	Non-European ethnicity	-0.04	0.04	-0.92	214.5	0.359	0.628	-0.11	0.04	
	BMI (z-score)	-0.01	0.02	-0.47	165.2	0.643	0.750	-0.04	0.03	
	Parental education	0.01	0.01	1.14	250.7	0.255	0.820	-0.01	0.02	
Base model (R ² = 0.1)	Superior longitudinal fasciculus (FA)									
	(Intercept)	-2.10	0.66	-3.18	122.0	0.002	0.005	-3.41	-0.79	
	IMT (z-score)	-0.01	0.02	-0.58	184.7	0.566	0.980	-0.04	0.02	
	Female sex	0.05	0.04	1.11	71.8	0.271	0.422	-0.04	0.13	
	Age at MRI	0.06	0.06	1.11	106.5	0.269	0.535	-0.05	0.17	
	Age delta	0.01	0.05	0.28	110.6	0.779	0.989	-0.09	0.11	
	Height	0.00	0.00	0.19	96.0	0.852	0.992	-0.01	0.01	
	TV	0.00	0.00	4.68	112.0	0.000	0.000	0.00	0.00	
	Non-European ethnicity	-2.62	0.68	-3.85	123.7	0.000	0.000	-3.97	-1.27	
	Parental education	-0.01	0.02	-0.47	165.2	0.642	0.980	-0.04	0.03	
Base model (R ² = 0.1)	Major forceps (FA)									
	(Intercept)	-0.10	0.74	-0.14	72.5	0.891	0.891	-1.57	1.37	
	IMT (z-score)	0.00	0.02	-0.03	84.0	0.980	0.980	-0.04	0.04	
	Female sex	0.08	0.04	2.11	154.5	0.036	0.084	0.01	0.15	
	Age at MRI	0.08	0.06	1.41	93.4	0.162	0.482	-0.03	0.20	
	Age delta	-0.05	0.06	-0.99	74.3	0.326	0.989	-0.16	0.06	
	Height	0.00	0.00	-0.94	121.1	0.348	0.992	-0.01	0.00	
	TV	0.00	0.00	-2.34	307.0	0.020	0.025	0.00	0.00	
	Non-European ethnicity	-0.15	0.75	-0.20	77.5	0.841	0.891	-1.65	1.34	
	Parental education	0.00	0.02	-0.07	85.0	0.943	0.980	-0.04	0.04	
Fully adjusted model (R ² = 0.1)	(Intercept)	-0.10	0.74	-0.14	72.5	0.891	0.891	-1.57	1.37	
	IMT (z-score)	0.00	0.02	-0.03	84.0	0.980	0.980	-0.04	0.04	
	Female sex	0.08	0.04	2.11	154.5	0.036	0.084	0.01	0.15	
	Age at MRI	0.08	0.06	1.42	102.2	0.159	0.482	-0.03	0.20	
	Age delta	-0.06	0.05	-1.01	82.5	0.314	0.989	-0.16	0.05	
	Height	0.00	0.00	-1.10	135.1	0.274	0.992	-0.01	0.00	
	TV	0.00	0.00	-2.26	237.2	0.025	0.029	0.00	0.00	
	Non-European ethnicity	0.03	0.04	0.57	88.2	0.568	0.663	-0.06	0.11	
	BMI (z-score)	0.01	0.01	0.40	94.0	0.476	0.750	-0.02	0.05	
	Parental education	0.00	0.01	0.38	169.6	0.707	0.820	-0.01	0.02	
Base model (R ² = 0.1)	Minor forceps (FA)									
	(Intercept)	-0.13	0.67	-0.19	116.6	0.849	0.891	-1.45	1.20	
	IMT (z-score)	-0.01	0.02	-0.47	95.0	0.640	0.980	-0.05	0.03	
	Female sex	-0.04	0.04	-0.87	68.7	0.389	0.466	-0.12	0.05	
	Age at MRI	-0.06	0.06	-1.03	123.1	0.306	0.535	-0.16	0.05	
	Age delta	0.01	0.06	0.18	74.8	0.855	0.989	-0.10	0.12	
	Height	0.00	0.00	-0.91	119.1	0.369	0.991	-0.01	0.01	
	TV	0.00	0.00	-0.96	396	0.001	0.000	0.00	0.00	
	Non-European ethnicity	-0.33	0.68	-0.49	132.1	0.623	0.793	-1.67	1.01	
	Parental education	-0.01	0.02	-0.48	94.9	0.633	0.980	-0.05	0.03	
Fully adjusted model (R ² = 0.1)	(Intercept)	-0.13	0.67	-0.19	116.6	0.849	0.891	-1.45	1.20	
	IMT (z-score)	-0.01	0.02	-0.48	94.9	0.633	0.980	-0.05	0.03	
	Female sex	-0.04	0.04	-0.85	70.5	0.399	0.466	-0.12	0.05	
	Age at MRI	-0.06	0.06	-1.04	125.2	0.299	0.535	-0.17	0.05	
	Age delta	0.01	0.06	0.21	77.1	0.836	0.989	-0.10	0.12	
	Height	0.00	0.00	-0.91	136.6	0.759	0.992	-0.01	0.01	
	TV	0.00	0.00	-3.95	119.7	0.000	0.000	0.00	0.00	
	Non-European ethnicity	0.04	0.04	1.04	184.1	0.301	0.628	-0.04	0.12	
	BMI (z-score)	-0.02	0.02	-1.20	85.8	0.234	0.750	-0.06	0.02	
	Parental education	0.00	0.01	0.47	83.5	0.638	0.820	-0.01	0.02	
Base model (R ² = 0.1)	Distensibility (z-score)									
	(Intercept)	-1.92	0.77	-2.49	60.9	0.016	0.032	-3.46	-0.38	
	Distensibility (z-score)	0.02	0.02	0.86	129.1	0.390	0.591	-0.02	0.05	
	Female sex	-0.12	0.04	-2.98	81.5	0.004	0.014	-0.20	-0.04	
	Age at MRI	0.09	0.06	1.55	75.9	0.125	0.487	-0.03	0.21	
	Age delta	0.00	0.05	0.01	213.0	0.991	0.999	-0.09	0.09	

Table S9 - White matter tracts (FA) (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)										DIASTOLIC BLOOD PRESSURE (DBP)											
	Predictor	Beta	SE	Statistic	Df	P _{radiated}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{radiated}	P _{FDR}	LCI	UCI		
Base model (R ² = 0.1)	Cingulate gyrus (FA)										Cingulate gyrus (FA)										
	(Intercept)	-1.87	0.79	-2.37	58.4	0.021	0.042	-3.45	-0.29	(Intercept)	-1.90	0.77	-2.47	61.1	0.016	0.032	-3.43	-0.36			
	SBP (z-score)	0.00	0.02	0.12	77.6	0.908	0.949	-0.04	0.04	DBP (z-score)	-0.01	0.02	-0.55	102.1	0.585	0.927	-0.05	0.03			
	Female sex	-0.12	0.04	-2.91	80.3	0.005	0.018	-0.20	-0.04	Female sex	-0.12	0.04	-2.88	80.6	0.005	0.018	-0.20	-0.04			
	Age at MRI	0.09	0.06	1.55	75.1	0.125	0.482	-0.03	0.21	Age at MRI	0.09	0.06	1.57	75.9	0.120	0.476	-0.03	0.21			
	Age delta	0.00	0.05	0.02	174.8	0.986	0.988	-0.09	0.09	Age delta	0.00	0.05	0.02	171.3	0.991	0.994	-0.09	0.09			
	Height	0.00	0.00	-0.25	119.9	0.800	0.932	-0.01	0.01	Height	0.00	0.00	-0.21	123.6	0.838	0.961	-0.01	0.01			
	TV	0.00	0.00	3.44	212.6	0.001	0.001	0.00	0.00	TV	0.00	0.00	3.42	215.6	0.001	0.001	0.00	0.00			
	Fully adjusted model (R ² = 0.2)	Cingulate gyrus (FA)										Cingulate gyrus (FA)									
		(Intercept)	-1.64	0.82	-2.01	57.2	0.049	0.086	-3.28	-0.01	(Intercept)	-1.64	0.81	-2.03	58.2	0.047	0.082	-3.26	-0.02		
SBP (z-score)		0.00	0.02	-0.06	88.8	0.949	0.949	-0.04	0.04	DBP (z-score)	-0.01	0.02	-0.68	115.9	0.496	0.927	-0.05	0.02			
Female sex		-0.12	0.04	-2.89	78.8	0.005	0.018	-0.20	-0.04	Female sex	-0.12	0.04	-2.86	79.6	0.005	0.018	-0.20	-0.04			
Age at MRI		0.08	0.06	1.38	74.0	0.172	0.482	-0.04	0.21	Age at MRI	0.09	0.06	1.39	74.1	0.170	0.476	-0.04	0.21			
Age delta		0.01	0.05	0.17	162.9	0.865	0.988	-0.09	0.10	Age delta	0.01	0.05	0.16	164.6	0.876	0.994	-0.09	0.10			
Height		0.00	0.00	-0.26	137.9	0.796	0.932	-0.01	0.01	Height	0.00	0.00	-0.26	154.8	0.797	0.961	-0.01	0.01			
TV		0.00	0.00	3.45	219.2	0.001	0.001	0.00	0.00	TV	0.00	0.00	3.43	217.3	0.001	0.001	0.00	0.00			
Non-European ethnicity		0.01	0.04	0.25	166.1	0.806	0.806	-0.07	0.09	Non-European ethnicity	0.01	0.04	0.26	164.0	0.795	0.795	-0.07	0.09			
BMI (z-score)		0.01	0.02	0.48	115.5	0.632	0.820	-0.03	0.05	BMI (z-score)	0.01	0.02	0.53	97.5	0.596	0.741	-0.03	0.05			
Parental education	0.01	0.01	0.60	99.3	0.553	0.763	-0.01	0.02	Parental education	0.01	0.01	0.57	106.1	0.572	0.760	-0.01	0.02				
Maternal age	-0.01	0.00	-1.71	101.8	0.091	0.318	-0.01	0.00	Maternal age	-0.01	0.00	-1.72	102.0	0.088	0.308	-0.01	0.00				
Base model (R ² = 0.1)	Corticospinal tract (FA)										Corticospinal tract (FA)										
	(Intercept)	-2.14	0.67	-3.21	121.9	0.002	0.005	-3.45	-0.82	(Intercept)	-2.22	0.65	-3.40	127.2	0.001	0.003	-3.52	-0.93			
	SBP (z-score)	0.02	0.02	1.08	73.1	0.285	0.949	-0.02	0.06	DBP (z-score)	0.02	0.02	1.52	312.0	0.130	0.910	-0.01	0.06			
	Female sex	0.01	0.04	0.22	70.3	0.828	0.882	-0.07	0.09	Female sex	0.01	0.04	0.20	70.3	0.839	0.893	-0.08	0.09			
	Age at MRI	0.02	0.06	0.35	81.4	0.730	0.909	-0.10	0.14	Age at MRI	0.02	0.06	0.34	81.4	0.734	0.914	-0.10	0.14			
	Age delta	-0.01	0.06	-0.25	66.1	0.802	0.988	-0.13	0.10	Age delta	-0.01	0.06	-0.25	66.1	0.802	0.994	-0.13	0.10			
	Height	0.01	0.00	1.73	122.9	0.085	0.932	0.00	0.01	Height	0.01	0.00	2.05	140.6	0.042	0.588	0.00	0.01			
	TV	0.00	0.00	5.84	225.8	0.000	0.000	0.00	0.00	TV	0.00	0.00	5.84	214.2	0.000	0.000	0.00	0.00			
	Fully adjusted model (R ² = 0.2)	Corticospinal tract (FA)										Corticospinal tract (FA)									
		(Intercept)	-2.22	0.70	-3.18	110.0	0.002	0.005	-3.60	-0.84	(Intercept)	-2.29	0.69	-3.33	116.2	0.001	0.003	-3.65	-0.93		
SBP (z-score)		0.02	0.02	1.09	82.4	0.278	0.949	-0.02	0.06	DBP (z-score)	0.03	0.02	1.62	408.2	0.107	0.910	-0.01	0.06			
Female sex		0.01	0.04	0.15	70.1	0.882	0.882	-0.08	0.09	Female sex	0.01	0.04	0.14	70.1	0.893	0.893	-0.08	0.09			
Age at MRI		0.03	0.06	0.55	77.3	0.583	0.886	-0.09	0.15	Age at MRI	0.03	0.06	0.55	78.0	0.583	0.878	-0.09	0.15			
Age delta		-0.03	0.06	-0.43	65.2	0.669	0.988	-0.14	0.09	Age delta	-0.03	0.06	-0.44	65.9	0.664	0.994	-0.14	0.09			
Height		0.00	0.00	1.48	106.2	0.141	0.932	0.00	0.01	Height	0.00	0.00	1.48	109.0	0.141	0.932	0.00	0.01			
TV		0.00	0.00	5.57	225.4	0.000	0.000	0.00	0.00	TV	0.00	0.00	5.56	214.0	0.000	0.000	0.00	0.00			
Non-European ethnicity		-0.04	0.04	-1.02	141.2	0.311	0.602	-0.12	0.04	Non-European ethnicity	-0.04	0.04	-1.06	140.4	0.291	0.579	-0.12	0.04			
BMI (z-score)		0.01	0.02	0.22	63.1	0.831	0.831	-0.04	0.05	BMI (z-score)	0.01	0.02	0.43	59.9	0.672	0.741	-0.03	0.05			
Parental education	0.00	0.01	0.30	146.0	0.763	0.763	-0.01	0.02	Parental education	0.00	0.01	0.33	160.8	0.742	0.760	-0.01	0.02				
Maternal age	0.00	0.00	0.45	139.8	0.650	0.758	-0.01	0.01	Maternal age	0.00	0.00	0.49	142.8	0.623	0.727	-0.01	0.01				
Base model (R ² = 0.4)	Uncinate fasciculus (FA)										Uncinate fasciculus (FA)										
	(Intercept)	-2.25	0.67	-3.33	105.9	0.001	0.004	-3.58	-0.91	(Intercept)	-2.25	0.66	-3.41	112.4	0.001	0.003	-3.56	-0.94			
	SBP (z-score)	0.01	0.02	0.24	83.9	0.813	0.949	-0.03	0.05	DBP (z-score)	0.02	0.02	0.62	85.0	0.414	0.927	-0.05	0.05			
	Female sex	-0.07	0.04	-1.82	84.2	0.072	0.126	-0.15	0.01	Female sex	-0.07	0.04	-1.82	84.4	0.067	0.117	-0.15	0.01			
	Age at MRI	0.00	0.06	0.03	105.6	0.975	0.975	-0.11	0.11	Age at MRI	0.00	0.06	0.01	107.0	0.989	0.989	-0.11	0.11			
	Age delta	0.00	0.05	-0.02	112.5	0.988	0.988	-0.10	0.10	Age delta	0.00	0.05	0.01	114.9	0.994	0.994	-0.10	0.10			
	Height	0.00	0.00	0.54	134.4	0.588	0.932	0.00	0.01	Height	0.00	0.00	0.57	119.8	0.571	0.961	0.00	0.01			
	TV	0.00	0.00	8.85	89.0	0.000	0.000	0.00	0.00	TV	0.00	0.00	8.64	87.2	0.000	0.000	0.00	0.00			
	Fully adjusted model (R ² = 0.4)	Uncinate fasciculus (FA)										Uncinate fasciculus (FA)									
		(Intercept)	-2.42	0.68	-3.58	123.5	0.000	0.000	-3.76	-1.08	(Intercept)	-2.45	0.67	-3.67	128.1	0.000	0.000	-3.77	-1.13		
SBP (z-score)		0.01	0.02	0.51	93.9	0.614	0.949	-0.03	0.05	DBP (z-score)	0.02	0.02	1.02	101.3	0.310	0.927	-0.02	0.05			
Female sex		-0.08	0.04	-1.90	85.1	0.060	0.120	-0.15	0.00	Female sex	-0.08	0.04	-1.94	85.2	0.056	0.112	-0.16	0.00			
Age at MRI		0.02	0.06	0.28	110.2	0.779	0.909	-0.09	0.13	Age at MRI	0.02	0.06	0.28	111.3	0.789	0.914	-0.09	0.13			
Age delta		-0.01	0.05	-0.23	116.8	0.816	0.988	-0.11	0.09	Age delta	-0.01	0.05	-0.23	119.6	0.823	0.994	-0.11	0.09			
Height		0.00	0.00	0.43	123.8	0.670	0.932	0.00	0.01	Height	0.00	0.00	0.49	116.0	0.624	0.961	0.00	0.01			
TV		0.00	0.00	8.32	84.8	0.000	0.000	0.00	0.00	TV	0.00	0.00	8.31	83.6	0.000	0.000	0.00	0.00			
Non-European ethnicity		-0.03	0.04	-0.74	269.3	0.459	0.643	-0.10	0.04	Non-European ethnicity	-0.03	0.04	-0.77	269.1	0.442	0.619	-0.10	0.04			
BMI (z-score)		-0.01	0.02	-0.38	119.4	0.703	0.820	-0.04	0.03	BMI (z-score)	-0.01	0.02	-0.33	112.9	0.741	0.741	-0.04	0.03			
Parental education	0.01	0.01	0.66	122.5	0.509	0.763	-0.01	0.02	Parental education	0.01	0.01	0.69	120.7	0.489	0.760	-0.01	0.02				
Maternal age	0.00	0.00	0.57	113.7	0.568	0.758	-0.01	0.01	Maternal age	0.00	0.00	0.60	113.2	0.551	0.727	-0.01	0.01				
Base model (R ² = 0.1)	Inferior longitudinal fasciculus (FA)										Inferior longitudinal fasciculus (FA)										
	(Intercept)	-0.47	0.63	-0.75	187.2	0.454	0.636	-1.72	0.77	(Intercept)	-0.52	0.62	-0.83	191.1	0.407	0.570	-1.74	0.71			
	SBP (z-score)	0.01	0.02	0.44	85.5	0.663	0.949	-0.03	0.05	DBP (z-score)	0.00	0.02	0.11	77.7	0.912	0.927	-0.04	0.04			
	Female sex	0.14	0.04	3.69	116.0	0.000	0.000	0.07	0.21	Female sex	0.14	0.04	3.72	117.4	0.000	0.000	0.07	0.22			
	Age at MRI	0.01	0.05	0.09	140.9	0.930	0.975	-0.10	0.11	Age at MRI	0.01	0.05	0.10	143.9	0.923	0.989	-0.10	0.11			
	Age delta	0.05	0.05	0.97	123.3	0.336	0.988	-0.05	0.15	Age delta	0.05	0.05	0.96	129.0	0.304	0.994	-0.05	0.14			
	Height	0.00	0.00	-0.59	142.7	0.555	0.932	-0.01	0.00	Height	0.00	0.00	-0.49	129.5	0.624	0.961	-0.01	0.00			
	TV	0.00	0.00	1.63	130.0	0.106	0.114	0.00	0.00	TV	0.00	0.00	1.61	125.2	0.110	0.118	0.00	0.00			
	Fully adjusted model (R ² = 0.1)	Inferior longitudinal fasciculus (FA)										Inferior longitudinal fasciculus (FA)									
		(Intercept)	-0.75	0.65	-1.16	187.5	0.249	0.387	-2.03	0.53	(Intercept)	-0.81	0.65	-1.25	179.6	0.213	0.331	-2.09	0.47		
SBP (z-score)		0.02	0.02	0.90	100.1	0.373	0.949	-0.02	0.06	DBP (z-score)	0.01	0.02	0.39	85.5	0.699	0.927	-0.03	0.05			
Female sex		0.13	0.04	3.57	120.2	0.001	0.007	0.06	0.21	Female sex	0.14	0.04	3.71	121.7	0.000	0.000	0.06	0.21			
Age at MRI		0																			

Table S10 - White matter tracts (MD)

CAROTID INTIMA-MEDIA THICKNESS (IMT)											
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		
Base model (R ² = 0.02)	Cingulate gyrus (MD)										
	(Intercept)	-0.59	0.65	-0.91	137.0	0.366	0.512	-1.87	0.69		
	IMT (z-score)	0.00	0.02	-0.11	126.9	0.910	0.963	-0.04	0.03		
	Female sex	0.05	0.04	1.23	144.5	0.221	0.309	-0.03	0.12		
	Age at MRI	-0.05	0.06	-0.85	118.9	0.397	0.514	-0.15	0.06		
	Age delta	-0.01	0.05	-0.19	90.4	0.852	0.956	-0.11	0.09		
	Height	0.00	0.00	-0.97	124.2	0.335	0.985	-0.01	0.00		
	TIV	0.00	0.00	7.12	113.8	0.000	0.000	0.00	0.00		
	Fully adjusted model (R ² = 0.02)	(Intercept)	-0.86	0.67	-1.29	139.7	0.200	0.406	-2.18	0.46	
		IMT (z-score)	0.00	0.02	-0.05	124.6	0.961	0.963	-0.04	0.03	
Female sex		0.05	0.04	1.23	144.0	0.221	0.309	-0.03	0.12		
Age at MRI		-0.04	0.06	-0.77	124.5	0.446	0.520	-0.15	0.07		
Age delta		-0.01	0.05	-0.25	86.8	0.807	0.956	-0.12	0.09		
Height		0.00	0.00	-0.59	130.5	0.560	0.985	-0.01	0.00		
TIV		0.00	0.00	7.00	105.6	0.000	0.000	0.00	0.00		
Non-European ethnicity		0.01	0.04	0.16	138.5	0.875	0.932	-0.07	0.08		
BMI (z-score)		-0.03	0.02	-1.67	100.5	0.099	0.173	-0.07	0.01		
Parental education		0.00	0.01	-0.42	317.6	0.677	0.919	-0.02	0.01		
Base model (R ² = 0.01)	Cortico-spinal tract (MD)										
	(Intercept)	1.27	0.70	1.80	88.8	0.075	0.399	-0.13	2.67		
	IMT (z-score)	0.00	0.02	-0.07	286.7	0.945	0.963	-0.03	0.03		
	Female sex	0.02	0.04	0.49	107.4	0.624	0.672	-0.06	0.10		
	Age at MRI	-0.09	0.06	-1.62	116.8	0.108	0.352	-0.20	0.02		
	Age delta	0.00	0.05	0.00	119.0	0.997	0.997	-0.10	0.10		
	Height	-0.01	0.00	-1.56	86.5	0.123	0.574	-0.01	0.00		
	TIV	0.00	0.00	2.60	97.5	0.011	0.015	0.00	0.00		
	Fully adjusted model (R ² = 0.01)	(Intercept)	0.88	0.72	1.21	91.5	0.228	0.406	-0.56	2.31	
		IMT (z-score)	0.00	0.02	0.13	279.6	0.901	0.963	-0.03	0.03	
Female sex		0.02	0.04	0.41	110.2	0.686	0.686	-0.06	0.09		
Age at MRI		-0.08	0.06	-1.46	131.6	0.147	0.352	-0.19	0.03		
Age delta		-0.01	0.05	-0.14	138.0	0.888	0.956	-0.10	0.09		
Height		0.00	0.00	-0.71	73.1	0.479	0.985	-0.01	0.00		
TIV		0.00	0.00	2.61	96.0	0.010	0.015	0.00	0.00		
Non-European ethnicity		-0.03	0.04	-0.75	251.3	0.452	0.764	-0.10	0.05		
BMI (z-score)		-0.07	0.02	-3.74	77.5	0.000	0.000	-0.11	-0.03		
Parental education		0.00	0.01	-0.50	163.2	0.618	0.919	-0.02	0.01		
Base model (R ² = 0.01)	Uncinate fasciculus (MD)										
	(Intercept)	-1.02	0.64	-1.60	162.1	0.112	0.399	-2.27	0.24		
	IMT (z-score)	0.02	0.02	0.95	150.3	0.345	0.963	-0.02	0.05		
	Female sex	0.17	0.04	4.81	218.0	0.000	0.000	0.10	0.24		
	Age at MRI	0.06	0.05	1.09	126.5	0.277	0.431	-0.05	0.17		
	Age delta	-0.05	0.05	-1.00	125.7	0.317	0.843	-0.15	0.05		
	Height	0.00	0.00	0.54	100.2	0.591	0.985	0.00	0.01		
	TIV	0.00	0.00	0.47	304.7	0.642	0.661	0.00	0.00		
	Fully adjusted model (R ² = 0.01)	(Intercept)	-0.73	0.65	-1.13	185.1	0.261	0.406	-2.00	0.55	
		IMT (z-score)	0.01	0.02	0.79	153.6	0.428	0.963	-0.02	0.05	
Female sex		0.17	0.04	5.00	212.7	0.000	0.000	0.11	0.24		
Age at MRI		0.03	0.05	0.55	149.1	0.585	0.585	-0.08	0.14		
Age delta		-0.03	0.05	-0.52	134.2	0.602	0.843	-0.12	0.07		
Height		0.00	0.00	0.59	95.5	0.559	0.985	0.00	0.01		
TIV		0.00	0.00	0.90	265.6	0.372	0.473	0.00	0.00		
Non-European ethnicity		0.09	0.04	2.35	217.7	0.020	0.140	0.01	0.16		
BMI (z-score)		0.02	0.02	0.85	97.1	0.400	0.457	-0.02	0.05		
Parental education		-0.01	0.01	-1.02	168.6	0.310	0.919	-0.02	0.01		
Base model (R ² = 0.03)	Inferior longitudinal fasciculus (MD)										
	(Intercept)	-1.09	0.66	-1.65	116.4	0.102	0.399	-2.40	0.22		
	IMT (z-score)	0.00	0.02	-0.05	122.8	0.963	0.963	-0.04	0.03		
	Female sex	-0.10	0.04	-2.60	96.5	0.011	0.022	-0.18	-0.02		
	Age at MRI	-0.04	0.05	-0.87	158.7	0.504	0.543	-0.14	0.07		
	Age delta	-0.04	0.05	-0.87	143.6	0.386	0.843	-0.14	0.05		
	Height	0.00	0.00	0.26	117.3	0.792	0.985	-0.01	0.01		
	TIV	0.00	0.00	8.72	479.4	0.000	0.000	0.00	0.00		
	Fully adjusted model (R ² = 0.03)	(Intercept)	-0.80	0.67	-1.19	130.3	0.235	0.406	-2.13	0.53	
		IMT (z-score)	0.00	0.02	-0.11	122.2	0.911	0.963	-0.04	0.03	
Female sex		-0.10	0.04	-2.54	93.7	0.013	0.023	-0.18	-0.02		
Age at MRI		-0.04	0.05	-0.84	155.4	0.404	0.514	-0.15	0.06		
Age delta		-0.03	0.05	-0.71	142.6	0.480	0.843	-0.13	0.06		
Height		0.00	0.00	-0.03	151.0	0.975	0.985	-0.01	0.01		
TIV		0.00	0.00	8.63	438.2	0.000	0.000	0.00	0.00		
Non-European ethnicity		0.00	0.04	0.09	133.3	0.932	0.932	-0.08	0.08		
BMI (z-score)		0.03	0.02	1.69	150.2	0.092	0.173	-0.01	0.06		
Parental education		0.00	0.01	-0.45	129.4	0.652	0.919	-0.02	0.01		
Base model (R ² = 0.02)	Superior longitudinal fasciculus (MD)										
	(Intercept)	1.08	0.68	1.60	101.4	0.114	0.399	-0.26	2.43		
	IMT (z-score)	0.01	0.02	0.59	92.7	0.560	0.963	-0.03	0.05		
	Female sex	-0.09	0.04	-2.68	209.6	0.008	0.022	-0.16	-0.03		
	Age at MRI	-0.08	0.06	-1.39	94.1	0.167	0.352	-0.19	0.03		
	Age delta	-0.05	0.05	-1.09	118.7	0.277	0.843	-0.15	0.04		
	Height	-0.01	0.00	-2.31	86.8	0.023	0.322	-0.01	0.00		
	TIV	0.00	0.00	5.35	102.0	0.000	0.000	0.00	0.00		
	Fully adjusted model (R ² = 0.02)	(Intercept)	0.99	0.69	1.45	116.2	0.150	0.406	-0.36	2.35	
		IMT (z-score)	0.01	0.02	0.56	92.6	0.575	0.963	-0.03	0.05	
Female sex		-0.09	0.04	-2.59	186.2	0.010	0.022	-0.16	-0.02		
Age at MRI		-0.09	0.06	-1.67	114.3	0.098	0.352	-0.20	0.02		
Age delta		-0.04	0.05	-0.86	139.3	0.389	0.843	-0.14	0.05		
Height		-0.01	0.00	-1.72	104.1	0.089	0.574	-0.01	0.00		
TIV		0.00	0.00	5.41	88.6	0.000	0.000	0.00	0.00		
Non-European ethnicity		0.06	0.04	1.63	246.4	0.104	0.278	-0.01	0.13		
BMI (z-score)		-0.04	0.02	-2.18	112.2	0.031	0.108	-0.07	0.00		
Parental education		0.00	0.01	0.30	445.3	0.763	0.919	-0.01	0.02		
Base model (R ² = 0.01)	Major forceps (MD)										
	(Intercept)	0.32	0.64	0.51	152.3	0.614	0.661	-0.94	1.59		
	IMT (z-score)	-0.01	0.02	-0.35	86.5	0.731	0.963	-0.04	0.03		
	Female sex	-0.11	0.04	-3.05	205.4	0.003	0.011	-0.18	-0.04		
	Age at MRI	-0.09	0.05	-1.76	233.3	0.080	0.352	-0.19	0.01		
	Age delta	0.03	0.05	0.68	181.9	0.495	0.843	-0.06	0.12		
	Height	0.00	0.00	-0.39	63.1	0.699	0.985	-0.01	0.01		
	TIV	0.00	0.00	4.33	106.1	0.000	0.000	0.00	0.00		
	Fully adjusted model (R ² = 0.02)	(Intercept)	0.19	0.66	0.28	157.0	0.778	0.778	-1.11	1.49	
		IMT (z-score)	-0.01	0.02	-0.27	88.2	0.787	0.963	-0.04	0.03	
Female sex		-0.11	0.04	-3.13	205.2	0.002	0.009	-0.18	-0.04		
Age at MRI		-0.08	0.05	-1.56	194.7	0.120	0.352	-0.18	0.02		
Age delta		0.03	0.05	0.56	170.1	0.574	0.843	-0.07	0.12		
Height		0.00	0.00	-0.12	63.9	0.907	0.985	-0.01	0.01		
TIV		0.00	0.00	4.29	116.1	0.000	0.000	0.00	0.00		
Non-European ethnicity		-0.03	0.04	-0.61	94.9	0.546	0.764	-0.11	0.06		
BMI (z-score)		-0.03	0.02	-1.41	67.0	0.164	0.216	-0.07	0.01		
Parental education		0.00	0.01	0.27	68.2	0.788	0.919	-0.02	0.02		
Base model (R ² < 0.01)	Minor forceps (MD)										
	(Intercept)	-0.42	0.61	-0.68	248.3	0.495	0.588	-1.61	0.78		
	IMT (z-score)	0.02	0.02	1.04	144.4	0.302	0.963	-0.02	0.05		
	Female sex	0.03	0.04	0.82	97.1	0.413	0.526	-0.05	0.11		
	Age at MRI	0.06	0.05	1.11	154.4	0.269	0.431	-0.05	0.16		
	Age delta	-0.08	0.05	-1.57	148.7	0.118	0.326	-0.17	0.02		
	Height	0.00	0.00	-0.02	124.5	0.985	0.985	-0.01	0.01		
	TIV	0.00	0.00	-0.44	156.1	0.661	0.661	0.00	0.00		
	Fully adjusted model (R ² < 0.01)	(Intercept)	-0.42	0.63	-0.67	241.0	0.504	0.588	-1.66	0.82	
		IMT (z-score)	0.02	0.02	1.09	133.1	0.280	0.963	-0.02	0.05	
Female sex		0.03	0.04	0.75	96.0	0.457	0.533	-0.05	0.11		
Age at MRI		0.07	0.05	1.36	159.5	0.176	0.352	-0.03	0.18		
Age delta		-0.09	0.05	-1.79	146.3	0.076	0.826	-0.18	0.01		
Height		0.00	0.00	-0.32	115.5	0.748	0.985	-0.01	0.01		
TIV		0.00	0.00	-0.67	147.9	0.503	0.503	-0.09	0.09		
Non-European ethnicity		0.08	0.01	15.77	217.2	0.119	0.278	0.13	0.27		
BMI (z-score)		0.01	0.02	0.75	93.5	0.457	0.457	-0.02	0.05		
Parental education		0.00	0.01	-0.05	78.9	0.957	0.957	-0.02	0.02		
Maternal age	0.00	0.00	0.47	79.7	0.638	0.769	-0.01	0.01			

Table S10 - White matter tracts (MD) (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)										
	Predictor	Beta	SE	Statistic	Df	P _{adjusted}	P _{FDR}	LCI	UCI	
Base model (R ² = 0.2)	Cingulate gyrus (MD)									
	(Intercept)	-0.63	0.66	-0.96	134.1	0.341	0.460	-1.92	0.67	
	SBP (z-score)	-0.01	0.02	-0.49	195.1	0.625	0.862	-0.04	0.03	
	Female sex	0.05	0.04	1.26	138.0	0.212	0.319	-0.03	0.12	
	Age at MRI	-0.05	0.06	-0.84	118.9	0.403	0.519	-0.15	0.06	
	Age delta	-0.01	0.05	-0.20	90.7	0.840	0.941	-0.11	0.09	
	Height	0.00	0.00	-0.84	116.0	0.402	0.929	-0.01	0.00	
	TIV	0.00	0.00	7.12	115.8	0.000	0.000	0.00	0.00	
Fully adjusted model (R ² = 0.2)	(Intercept)	-0.85	0.67	-1.27	138.7	0.208	0.406	-2.17	0.48	
	SBP (z-score)	0.00	0.02	0.13	199.7	0.895	0.944	-0.03	0.04	
	Female sex	0.05	0.04	1.21	134.3	0.228	0.319	-0.03	0.12	
	Age at MRI	-0.04	0.06	-0.77	124.2	0.445	0.519	-0.15	0.07	
	Age delta	-0.01	0.05	-0.24	87.1	0.811	0.941	-0.12	0.09	
	Height	0.00	0.00	-0.60	120.9	0.551	0.929	-0.01	0.00	
	TIV	0.00	0.00	7.02	107.5	0.000	0.000	0.00	0.00	
	Non-European ethnicity	0.01	0.04	0.16	147.0	0.874	0.944	-0.07	0.08	
Base model (R ² = 0.1)	Cortico-spinal tract (MD)									
	(Intercept)	1.10	0.70	1.56	91.9	0.122	0.406	-0.30	2.50	
	SBP (z-score)	-0.03	0.02	-1.92	237.5	0.056	0.784	-0.07	0.00	
	Female sex	0.02	0.04	0.59	108.7	0.560	0.603	-0.05	0.10	
	Age at MRI	-0.09	0.06	-1.58	117.4	0.117	0.354	-0.20	0.02	
	Age delta	0.00	0.05	-0.07	117.0	0.941	0.941	-0.10	0.10	
	Height	0.00	0.00	-1.16	94.0	0.249	0.929	-0.01	0.00	
	TIV	0.00	0.00	2.58	100.2	0.011	0.015	0.00	0.00	
Fully adjusted model (R ² = 0.1)	(Intercept)	0.84	0.72	1.17	93.9	0.243	0.406	-0.58	2.27	
	SBP (z-score)	-0.01	0.02	-0.42	205.5	0.677	0.862	-0.04	0.03	
	Female sex	0.02	0.04	0.42	110.5	0.676	0.676	-0.06	0.09	
	Age at MRI	-0.08	0.06	-1.45	130.9	0.149	0.354	-0.19	0.03	
	Age delta	-0.01	0.05	-0.15	134.4	0.879	0.941	-0.11	0.09	
	Height	0.00	0.00	-0.65	81.1	0.519	0.929	-0.01	0.00	
	TIV	0.00	0.00	2.62	98.4	0.010	0.015	0.00	0.00	
	Non-European ethnicity	-0.03	0.04	-0.75	249.8	0.452	0.763	-0.10	0.05	
Base model (R ² = 0.1)	Uncinate fasciculus (MD)									
	(Intercept)	-0.95	0.64	-1.48	156.2	0.141	0.406	-2.22	0.32	
	SBP (z-score)	0.02	0.02	1.29	286.9	0.198	0.784	-0.01	0.05	
	Female sex	0.16	0.04	4.66	208.5	0.000	0.000	0.09	0.23	
	Age at MRI	0.06	0.05	1.07	124.4	0.288	0.448	-0.05	0.17	
	Age delta	-0.05	0.05	-0.96	125.4	0.340	0.863	-0.15	0.05	
	Height	0.00	0.00	0.37	107.6	0.715	0.929	-0.01	0.01	
	TIV	0.00	0.00	0.53	300.9	0.599	0.645	0.00	0.00	
Fully adjusted model (R ² = 0.1)	(Intercept)	-0.73	0.65	-1.13	178.1	0.261	0.406	-2.02	0.55	
	SBP (z-score)	0.01	0.02	0.63	421.9	0.526	0.818	-0.02	0.04	
	Female sex	0.17	0.04	4.90	208.7	0.000	0.000	0.10	0.24	
	Age at MRI	0.03	0.05	0.54	147.0	0.590	0.590	-0.08	0.14	
	Age delta	-0.03	0.05	-0.50	133.0	0.618	0.865	-0.12	0.07	
	Height	0.00	0.00	0.57	99.8	0.569	0.929	0.00	0.01	
	TIV	0.00	0.00	0.94	262.2	0.348	0.443	0.00	0.00	
	Non-European ethnicity	0.09	0.04	2.39	211.5	0.018	0.126	0.02	0.16	
Base model (R ² = 0.3)	Inferior longitudinal fasciculus (MD)									
	(Intercept)	-1.09	0.65	-1.68	130.6	0.096	0.406	-2.39	0.20	
	SBP (z-score)	0.00	0.02	-0.07	177.2	0.943	0.944	-0.04	0.03	
	Female sex	-0.10	0.04	-2.59	94.9	0.011	0.022	-0.18	-0.02	
	Age at MRI	-0.04	0.05	-0.67	161.0	0.505	0.544	-0.14	0.07	
	Age delta	-0.04	0.05	-0.88	147.4	0.382	0.863	-0.14	0.05	
	Height	0.00	0.00	0.28	145.4	0.782	0.929	-0.01	0.01	
	TIV	0.00	0.00	8.70	466.1	0.000	0.000	0.00	0.00	
Fully adjusted model (R ² = 0.3)	(Intercept)	-0.85	0.67	-1.27	134.9	0.208	0.406	-2.17	0.48	
	SBP (z-score)	-0.01	0.02	-0.82	207.4	0.414	0.784	-0.05	0.02	
	Female sex	-0.10	0.04	-2.47	91.6	0.015	0.026	-0.17	-0.02	
	Age at MRI	-0.04	0.05	-0.83	155.9	0.410	0.519	-0.15	0.06	
	Age delta	-0.04	0.05	-0.74	144.2	0.462	0.863	-0.13	0.06	
	Height	0.00	0.00	0.10	179.5	0.922	0.977	-0.01	0.01	
	TIV	0.00	0.00	8.59	429.9	0.000	0.000	0.00	0.00	
	Non-European ethnicity	0.00	0.04	0.07	135.6	0.944	0.944	-0.08	0.08	
Base model (R ² = 0.2)	Superior longitudinal fasciculus (MD)									
	(Intercept)	0.90	0.67	1.35	113.3	0.181	0.406	-0.43	2.23	
	SBP (z-score)	-0.03	0.02	-1.51	126.1	0.134	0.784	-0.06	0.01	
	Female sex	-0.09	0.04	-2.65	201.3	0.009	0.022	-0.16	-0.02	
	Age at MRI	-0.08	0.06	-1.36	96.1	0.177	0.354	-0.19	0.04	
	Age delta	-0.06	0.05	-1.15	119.1	0.251	0.863	-0.16	0.04	
	Height	-0.01	0.00	-1.84	81.1	0.070	0.929	-0.01	0.00	
	TIV	0.00	0.00	5.38	105.8	0.000	0.000	0.00	0.00	
Fully adjusted model (R ² = 0.3)	(Intercept)	0.90	0.68	1.32	122.0	0.189	0.406	-0.45	2.25	
	SBP (z-score)	-0.02	0.02	-1.02	218.4	0.311	0.784	-0.05	0.02	
	Female sex	-0.09	0.04	-2.58	183.0	0.011	0.022	-0.16	-0.02	
	Age at MRI	-0.09	0.06	-1.66	115.3	0.100	0.354	-0.20	0.02	
	Age delta	-0.04	0.05	-0.89	138.8	0.373	0.863	-0.14	0.05	
	Height	0.00	0.00	-1.45	93.8	0.151	0.929	-0.01	0.00	
	TIV	0.00	0.00	5.43	90.8	0.000	0.000	0.00	0.00	
	Non-European ethnicity	0.06	0.04	1.65	243.1	0.101	0.296	-0.01	0.13	
Base model (R ² = 0.1)	Major forceps (MD)									
	(Intercept)	0.35	0.64	0.55	155.2	0.587	0.632	-0.92	1.62	
	SBP (z-score)	0.00	0.02	0.07	132.5	0.944	0.944	-0.03	0.04	
	Female sex	-0.11	0.03	-3.06	223.8	0.003	0.011	-0.17	-0.04	
	Age at MRI	-0.09	0.05	-1.76	231.7	0.080	0.354	-0.19	0.01	
	Age delta	0.03	0.05	0.69	183.1	0.493	0.863	-0.06	0.12	
	Height	0.00	0.00	-0.44	65.7	0.664	0.929	-0.01	0.01	
	TIV	0.00	0.00	4.30	103.6	0.000	0.000	0.00	0.00	
Fully adjusted model (R ² = 0.2)	(Intercept)	0.25	0.66	0.38	150.1	0.705	0.705	-1.06	1.56	
	SBP (z-score)	0.01	0.02	0.76	140.8	0.448	0.784	-0.02	0.05	
	Female sex	-0.11	0.04	-3.19	225.0	0.002	0.009	-0.18	-0.04	
	Age at MRI	-0.08	0.05	-1.57	194.6	0.118	0.354	-0.18	0.02	
	Age delta	0.03	0.05	0.59	172.8	0.557	0.865	-0.07	0.12	
	Height	0.00	0.00	-0.26	64.0	0.796	0.929	-0.01	0.01	
	TIV	0.00	0.00	4.30	114.3	0.000	0.000	0.00	0.00	
	Non-European ethnicity	-0.03	0.04	-0.61	93.2	0.545	0.763	-0.11	0.06	
Base model (R ² < 0.1)	Minor forceps (MD)									
	(Intercept)	-0.55	0.62	-0.89	217.8	0.375	0.460	-1.78	0.67	
	SBP (z-score)	-0.02	0.02	-0.83	145.4	0.409	0.784	-0.05	0.02	
	Female sex	0.03	0.04	0.79	97.1	0.433	0.548	-0.05	0.11	
	Age at MRI	0.06	0.05	1.14	151.3	0.258	0.448	-0.05	0.17	
	Age delta	-0.08	0.05	-1.51	147.2	0.110	0.770	-0.17	0.02	
	Height	0.00	0.00	0.28	120.1	0.729	0.929	-0.01	0.01	
	TIV	0.00	0.00	-0.42	158.9	0.672	0.872	0.00	0.00	
Fully adjusted model (R ² < 0.1)	(Intercept)	-0.55	0.64	-0.85	210.3	0.394	0.460	-1.81	0.72	
	SBP (z-score)	-0.02	0.02	-1.01	130.6	0.313	0.784	-0.06	0.02	
	Female sex	0.03	0.04	0.73	94.3	0.470	0.548	-0.05	0.11	
	Age at MRI	0.07	0.05	1.37	157.1	0.172	0.354	-0.03	0.18	
	Age delta	-0.09	0.05	-1.81	144.9	0.072	0.770	-0.19	0.01	
	Height	0.00	0.00	-0.03	115.1	0.977	0.977	-0.01	0.01	
	TIV	0.00	0.00	-0.66	153.4	0.509	0.594	-0.00	0.00	
	Non-European ethnicity	-0.06	0.04	-1.53	223.3	0.127	0.326	-0.13	0.02	
Base model (R ² = 0.2)	Diastolic blood pressure (DBP)									
	(Intercept)	-0.60	0.64	-0.93	146.6	0.354	0.496	-1.86	0.67	
	DBP (z-score)	-0.01	0.02	-0.66	223.4	0.511	0.790	-0.04	0.02	
	Female sex	0.05	0.04	1.28	148.3	0.203	0.293	-0.03	0.12	
	Age at MRI	-0.05	0.06	-0.84	119.8	0.405	0.519	-0.15	0.06	
	Age delta	-0.01	0.05	-0.21	91.1	0.836	0.928	-0.11	0.00	
	Height	0.00	0.00	-0.95	120.3	0.344	0.938	-0.01	0.00	
	TIV	0.00	0.00	7.10	115.0	0.000	0.000	0.00	0.00	
Fully adjusted model (R ² = 0.2)	(Intercept)	-0.86	0.66	-1.31	153.4	0.194	0.369	-2.16	0.44	
	DBP (z-score)	-0.01	0.02	-0.42	231.6	0.674	0.790	-0.04	0.03	
	Female sex	0.05	0.04	1.26	147.2	0.209	0.293	-0.03	0.12	
	Age at MRI	-0.04	0.06	-0.76	124.8	0.448	0.523	-0.15	0.07	
	Age delta	-0.01	0.05	-0.25	87.2	0.801	0.928	-0.12	0.09	
	Height	0.00	0.00	-0.58	130.8	0.563	0.938	-0.01	0.00	
	TIV	0.00	0.00	7.07	107.4	0.000	0.000	0.00	0.	

Table S11 - Vertex-wise analysis results

CAROTID INTIMA-MEDIA THICKNESS (IMT)							CAROTID DISTENSIBILITY							
Variable	Cluster	n vertices	Thickness	Coefficient	SE	Top region	Variable	Cluster	n vertices	Thickness	Coefficient	SE	Top region	
Left hemisphere	(Intercept)	1	145744	2.66	3.01	0.17	superiorfrontal (8.35%, 99.97%)	(Intercept)	1	145744	2.66	3.01	0.17	superiorfrontal (8.35%, 99.97%)
	1	9277	2.68	-0.05	0.01	precuneus (35.81%, 45.46%)	1	9205	2.67	-0.05	0.01	precuneus (35.29%, 44.44%)		
	2	3221	2.68	-0.04	0.01	rostralmiddlefrontal (93.76%, 41.70%)	2	3331	2.68	-0.04	0.01	rostralmiddlefrontal (93.31%, 42.91%)		
	3	1903	2.68	0.06	0.01	precentral (94.80%, 16.80%)	3	1956	2.68	0.06	0.01	precentral (94.99%, 17.30%)		
	4	1949	2.60	0.06	0.01	postcentral (99.79%, 20.43%)	4	2004	2.60	0.06	0.01	postcentral (99.60%, 20.97%)		
	5	1653	2.65	0.07	0.01	superiortemporal (71.57%, 16.27%)	5	1659	2.65	0.07	0.01	superiortemporal (72.57%, 16.56%)		
	6	1483	2.60	-0.04	0.01	inferioparietal (100%, 18.84%)	6	1448	2.60	-0.04	0.01	inferioparietal (100%, 18.4%)		
	7	905	2.68	0.07	0.02	superiortemporal (43.43%, 5.41%)	7	967	2.68	0.07	0.02	superiortemporal (41.99%, 5.58%)		
	8	896	2.63	-0.04	0.01	superiorfrontal (71.09%, 5.23%)	8	898	2.63	-0.04	0.01	superiorfrontal (73.72%, 5.44%)		
	9	918	2.77	0.05	0.01	pericalcarine (84.75%, 40.69%)	9	924	2.77	0.05	0.01	pericalcarine (84.52%, 40.85%)		
	10	1122	2.65	-0.04	0.01	supramarginal (60.7%, 7.92%)	10	1163	2.64	-0.04	0.01	supramarginal (59.16%, 8.00%)		
	11	1099	2.61	0.06	0.01	parahippocampal (82.98%, 49.62%)	11	1402	2.69	-0.04	0.01	paracentral (38.23%, 16.27%)		
	12	1330	2.69	-0.04	0.01	paracentral (39.10%, 15.79%)	12	1082	2.61	0.06	0.01	parahippocampal (83.73%, 49.29%)		
	13	1011	2.65	-0.04	0.01	insula (53.21%, 10.29%)	13	1065	2.65	-0.04	0.01	insula (52.77%, 10.75%)		
	14	610	2.55	0.06	0.01	rostralanteriorcingulate (76.89%, 34.74%)	14	576	2.55	0.06	0.01	rostralanteriorcingulate (77.26%, 32.96%)		
	15	381	2.82	0.05	0.01	inferiortemporal (96.06%, 8.29%)	15	395	2.82	0.05	0.01	inferiortemporal (93.92%, 8.40%)		
	16	560	2.74	0.05	0.01	paracentral (60.89%, 10.35%)	16	599	2.74	0.05	0.01	paracentral (61.77%, 11.23%)		
	17	379	2.64	0.04	0.01	parosorbitalis (93.93%, 37.24%)	17	352	2.65	0.04	0.01	parosorbitalis (94.6%, 34.83%)		
	18	484	2.71	-0.04	0.01	superiortemporal (82.23%, 5.47%)	18	502	2.71	-0.04	0.01	superiortemporal (81.27%, 5.61%)		
	19	283	2.71	0.06	0.01	middletemporal (55.83%, 3.55%)	19	290	2.70	0.06	0.01	middletemporal (55.17%, 3.59%)		
20	292	2.78	-0.06	0.02	inferiortemporal (100%, 6.61%)	20	298	2.78	-0.07	0.02	inferiortemporal (100%, 6.75%)			
Age at MRI	1	58914	2.65	-0.04	0.01	superiorfrontal (9.66%, 46.74%)	Age at MRI	1	30836	2.64	-0.04	0.01	superiorfrontal (17.41%, 44.08%)	
	2	946	2.80	-0.03	0.01	fusiform (66.81%, 13.41%)		2	27458	2.65	-0.03	0.01	inferioparietal (17.38%, 60.64%)	
Height	1	980	2.63	0.00	0.00	lateralorbitofrontal (83.57%, 19.56%)	Height	3	956	2.80	-0.03	0.01	fusiform (66.11%, 13.41%)	
	2	477	2.53	0.00	0.00	medialorbitofrontal (68.13%, 12.25%)		1	1007	2.64	0.00	0.00	lateralorbitofrontal (86.59%, 20.82%)	
Ethnicity	1	3226	2.66	-0.05	0.01	lateraloccipital (54.06%, 27.34%)	Ethnicity	2	418	2.53	0.00	0.00	medialorbitofrontal (73.68%, 11.61%)	
	2	3610	2.71	-0.06	0.01	precuneus (45.93%, 22.69%)		1	4302	2.71	-0.06	0.01	precuneus (38.42%, 22.62%)	
	3	2173	2.63	-0.04	0.01	inferioparietal (39.94%, 11.03%)		2	3240	2.66	-0.05	0.01	lateraloccipital (54.01%, 27.43%)	
	4	3014	2.61	-0.04	0.01	superiortemporal (36.16%, 14.99%)		3	2180	2.63	-0.04	0.01	inferioparietal (39.72%, 11.00%)	
	5	2250	2.71	-0.04	0.01	paracentral (45.87%, 31.33%)		4	2981	2.61	-0.04	0.01	superiortemporal (36.20%, 14.84%)	
	6	1407	2.58	-0.04	0.01	isthmuscingulate (51.46%, 28.61%)		5	2265	2.71	-0.04	0.01	paracentral (45.92%, 31.57%)	
	7	672	2.72	-0.07	0.02	lingual (78.12%, 12.49%)		6	1417	2.59	-0.04	0.01	isthmuscingulate (50.95%, 28.53%)	
	8	615	2.59	-0.04	0.01	fusiform (95.61%, 12.47%)		7	628	2.59	-0.04	0.01	fusiform (95.54%, 12.73%)	
	9	398	2.74	-0.06	0.02	inferiortemporal (83.92%, 7.57%)		8	381	2.74	-0.06	0.02	inferiortemporal (85.56%, 7.38%)	
	10	245	2.74	0.04	0.01	lingual (100%, 5.83%)		9	258	2.74	0.04	0.01	lingual (100%, 6.14%)	
	11	395	2.72	-0.04	0.01	fusiform (56.2%, 4.71%)		10	234	2.68	0.07	0.02	superiortemporal (59.83%, 1.93%)	
	12	211	2.68	0.07	0.02	superiortemporal (61.61%, 1.79%)		11	376	2.72	-0.04	0.01	fusiform (55.32%, 4.41%)	
	13	422	2.76	-0.04	0.01	postcentral (94.79%, 4.20%)		12	419	2.76	-0.04	0.01	postcentral (95.47%, 4.20%)	
BMI (z)	1	1828	2.69	0.03	0.01	fusiform (27.13%, 10.52%)	BMI (z)	1	1539	2.69	0.03	0.01	fusiform (31.12%, 10.16%)	
	2	982	2.66	0.03	0.01	lateraloccipital (93.99%, 14.47%)		2	982	2.65	0.03	0.01	lateraloccipital (94.3%, 14.52%)	
	3	692	2.66	-0.02	0.01	superiorfrontal (81.50%, 4.63%)		3	607	2.67	-0.02	0.01	superiorfrontal (84.35%, 4.20%)	
	4	587	2.60	0.02	0.01	postcentral (100%, 6.17%)		4	538	2.62	0.02	0.01	postcentral (100%, 5.65%)	
	5	522	2.64	-0.02	0.01	superiorfrontal (73.95%, 3.17%)		5	477	2.64	-0.02	0.01	superiorfrontal (71.07%, 2.78%)	
Right hemisphere	(Intercept)	1	145637	2.65	3.00	0.17	superiorfrontal (8.15%, 99.93%)	(Intercept)	1	145637	2.65	3.00	0.17	superiorfrontal (8.15%, 99.93%)
	1	10092	2.68	-0.05	0.01	precuneus (53.55%, 67.76%)	1	9854	2.68	-0.05	0.01	precuneus (52.84%, 65.29%)		
	2	3423	2.62	-0.04	0.01	rostralmiddlefrontal (90.39%, 39.34%)	2	2906	2.61	-0.04	0.01	rostralmiddlefrontal (98.86%, 36.53%)		
	3	2433	2.63	-0.04	0.01	superioparietal (46.94%, 11.17%)	3	2389	2.63	-0.04	0.01	superioparietal (47.80%, 11.17%)		
	4	3142	2.69	-0.04	0.01	insula (55.92%, 34.52%)	4	1573	2.58	0.06	0.02	middletemporal (50.73%, 15.78%)		
	5	1480	2.58	0.06	0.01	middletemporal (51.55%, 15.09%)	5	3155	2.69	-0.04	0.01	insula (55.69%, 34.52%)		
	6	1297	2.59	0.05	0.01	pericalcarine (88.9%, 63.25%)	6	1279	2.59	0.05	0.01	pericalcarine (89.6%, 62.86%)		
	7	1253	2.62	0.06	0.01	postcentral (100%, 13.71%)	7	1261	2.62	0.06	0.01	postcentral (100%, 13.8%)		
	8	994	2.60	-0.04	0.01	rostralmiddlefrontal (90.34%, 11.42%)	8	989	2.62	0.07	0.01	parahippocampal (62.69%, 35.59%)		
	9	960	2.62	0.06	0.01	parahippocampal (64.79%, 35.71%)	9	948	2.54	-0.04	0.01	superiorfrontal (77.43%, 6.18%)		
	10	1019	2.55	-0.04	0.01	superiorfrontal (76.45%, 6.56%)	10	785	2.58	-0.04	0.01	rostralmiddlefrontal (97.2%, 9.70%)		
	11	1076	2.63	0.03	0.01	postcentral (55.67%, 6.56%)	11	1091	2.63	0.03	0.01	postcentral (54.81%, 6.54%)		
	12	861	2.63	-0.04	0.01	inferioparietal (100%, 8.9%)	12	985	2.68	0.05	0.01	precentral (100%, 9.2%)		
	13	810	2.68	0.05	0.01	precentral (100%, 7.57%)	13	784	2.63	-0.04	0.01	inferioparietal (100%, 8.1%)		
	14	626	2.61	-0.04	0.01	lateralorbitofrontal (100%, 14.38%)	14	629	2.61	-0.04	0.01	lateralorbitofrontal (100%, 14.45%)		
	15	455	2.76	-0.04	0.01	fusiform (100%, 9.76%)	15	581	2.54	0.04	0.01	postcentral (71.94%, 4.57%)		
	16	528	2.54	0.04	0.01	postcentral (73.30%, 4.24%)	16	450	2.75	-0.04	0.01	fusiform (100%, 9.65%)		
	17	467	2.67	-0.05	0.01	medialorbitofrontal (72.16%, 12.03%)	17	460	2.67	-0.05	0.01	medialorbitofrontal (73.04%, 12.00%)		
	18	519	2.77	-0.04	0.01	superiortemporal (80.73%, 6.10%)	18	504	2.78	-0.04	0.01	superiortemporal (81.15%, 5.96%)		
	19	518	2.70	-0.04	0.01	supramarginal (100%, 6.36%)	19	529	2.69	-0.04	0.01	supramarginal (100%, 6.49%)		
20	247	2.63	0.04	0.01	parosorbitalis (100%, 26.11%)	20	398	2.65	-0.04	0.01	superiorfrontal (60.80%, 2.04%)			
Age at MRI	1	37166	2.65	-0.04	0.01	precuneus (15.52%, 72.34%)	Age at MRI	21	248	2.63	0.04	0.01	parosorbitalis (100%, 26.22%)	
	2	12410	2.64	-0.03	0.01	inferioparietal (44.79%, 57.44%)		1	36994	2.65	-0.04	0.01	precuneus (15.59%, 72.34%)	
	3	2415	2.69	-0.03	0.01	lateraloccipital (45.51%, 18.43%)		2	12384	2.64	-0.03	0.01	inferioparietal (44.89%, 57.45%)	
	4	1168	2.70	-0.03	0.01	fusiform (94.01%, 23.56%)		3	2412	2.69	-0.03	0.01	lateraloccipital (46.48%, 18.80%)	
	5	663	2.71	-0.03	0.01	precentral (48.42%, 3.00%)		4	1101	2.70	-0.03	0.01	fusiform (92.73%, 21.91%)	
	6	603	2.62	-0.03	0.01	superiorfrontal (36.98%, 1.88%)		5	625	2.71	-0.03	0.01	precentral (49.44%, 2.89%)	
	7	458	2.53	-0.03	0.01	caudalmiddlefrontal (100%, 13.11%)		6	591	2.62	-0.03	0.01	superiorfrontal (35.87%, 1.78%)	
	8	673	2.74	-0.03	0.01	supramarginal (94.06%, 7.77%)		7	438	2.53	-0.03	0.01	caudalmiddlefrontal (100%, 12.54%)	
Height	1	690	2.60	0.00	0.00	lateralorbitofrontal (100%, 15.85%)	Height	8	660	2.74	-0.03	0.01	supramarginal (93.48%, 7.57%)	
	2	272	2.65	0.00	0.00	lateraloccipital (58.46%, 2.67%)		1	710	2.60	0.00	0.00	lateralorbitofrontal (100%, 16.31%)	
Ethnicity	1	5243	2.63	-0.06	0.01	precuneus (37.02%, 24.34%)	Ethnicity	2	239	2.67	0.00	0.00	lateraloccipital (59.83%, 2.40%)	
	2	3589	2.65	-0.05	0.01	lateraloccipital (77.68%, 46.75%)		1	5272	2.63	-0.06	0.01	precuneus (37.03%, 24.48%)	
	3	1809	2.64	-0.04	0.01	inferioparietal (30.74%, 5.75%)		2	3616	2.65	-0.05	0.01	lateraloccipital (77.52%, 47.01%)	
	4	2284	2.64	-0.05	0.01	superiortemporal (49.39%, 16.42%)		3	1812	2.64	-0.04	0.01	inferioparietal (31.24%, 5.85%)	
	5	885	2.63	-0.05	0.01	superioparietal (66.44%, 5.75%)		4	2260	2.64	-0.05	0.01	superiortemporal (48.72%, 16.03%)	
	6	398	2.53	0.09	0.02	superiortemporal (54.52%, 3.16%)		5	911	2.63	-0.05	0.01	superioparietal (65.75%, 5.86%)	
	7	706	2.73	-0.04	0.01	postcentral (62.75%, 4.85%)		6	420	2.53	0.09	0.02	superiortemporal (54.05%, 3.31%)	
BMI (z)	8	819	2.79	-0.04	0.01	insula (57.14%, 9.19%)	BMI (z)	7	703	2.73	-0.04	0.01	postcentral (62.45%, 4.80%)	
	9	369	2.75	-0.05	0.01	inferiortemporal (58.27%, 5.12%)		8	822	2.78	-0.04	0.01	insula (57.06%, 9.21%)	
	10	203	2.46	0.04	0.01	lingual (100%, 5.21%)		9	208	2.47	0.04	0.01	lingual (100%, 5.34%)	
	11	426	2.59	-0.04	0.01	supramarginal (100%, 5.23%)		10	355	2.75	-0.05	0.0.		

Table S11 - Vertex-wise analysis results (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)								DIASTOLIC BLOOD PRESSURE (DBP)									
	Variable	Cluster	n vertices	Thickness	Coefficient	SE	Top region		Variable	Cluster	n vertices	Thickness	Coefficient	SE	Top region		
	(Intercept)	1	145744	2.66	2.99	0.17	superiorfrontal (8.35%, 99.97%)		(Intercept)	1	145744	2.66	3.00	0.17	superiorfrontal (8.35%, 99.97%)		
Left hemisphere		1	8964	2.68	-0.05	0.01	precuneus (36.04%, 44.21%)			1	8758	2.67	-0.05	0.01	precuneus (35.88%, 42.99%)		
		2	3163	2.68	-0.04	0.01	rostralmiddlefrontal (93.65%, 40.89%)			2	3161	2.68	-0.04	0.01	rostralmiddlefrontal (94.27%, 41.14%)		
		3	2005	2.60	0.06	0.01	postcentral (99.25%, 20.91%)			3	2019	2.60	0.06	0.01	postcentral (98.66%, 20.93%)		
		4	1917	2.68	0.06	0.01	precentral (93.38%, 16.67%)			4	1915	2.68	0.06	0.01	precentral (92.90%, 16.56%)		
		5	1630	2.64	0.07	0.01	superiortemporal (70.8%, 15.87%)			5	1609	2.64	0.07	0.01	superiortemporal (71.35%, 15.79%)		
		6	1340	2.60	-0.04	0.01	inferioparietal (100%, 17.02%)			6	1317	2.59	-0.04	0.01	inferioparietal (100%, 16.73%)		
		7	876	2.68	0.07	0.02	superiortemporal (43.04%, 5.18%)			7	915	2.63	-0.04	0.01	superiorfrontal (74.54%, 5.60%)		
		8	934	2.63	-0.04	0.01	superiorfrontal (73.13%, 5.61%)			8	800	2.69	0.07	0.02	superiortemporal (47.38%, 5.21%)		
		9	880	2.77	0.05	0.01	pericalcarine (86.25%, 39.70%)			9	1162	2.61	0.07	0.01	parahippocampal (80.46%, 50.87%)		
		10	1117	2.62	0.07	0.01	parahippocampal (81.29%, 49.40%)			10	849	2.78	0.05	0.01	pericalcarine (86.22%, 38.28%)		
		11	1093	2.65	-0.04	0.01	supramarginal (59.93%, 7.62%)			11	1032	2.66	-0.04	0.01	supramarginal (63.18%, 7.58%)		
		12	1290	2.69	-0.04	0.01	paracentral (39.15%, 15.33%)			12	1301	2.69	-0.04	0.01	paracentral (38.74%, 15.30%)		
		13	1006	2.65	-0.04	0.01	insula (53.58%, 10.31%)			13	604	2.56	0.06	0.01	rostralanteriorcingulate (74.5%, 33.33%)		
		14	600	2.55	0.06	0.01	rostralanteriorcingulate (75.33%, 33.48%)			14	957	2.66	-0.04	0.01	insula (52.04%, 9.52%)		
		15	583	2.74	0.05	0.01	paracentral (61.92%, 10.96%)			15	632	2.75	0.05	0.01	paracentral (63.61%, 12.20%)		
		16	348	2.82	0.05	0.01	inferiortemporal (98.28%, 7.75%)			16	372	2.82	0.05	0.01	inferiortemporal (97.58%, 8.22%)		
		17	362	2.64	0.05	0.01	paraventricular (92.82%, 35.15%)			17	376	2.64	0.05	0.01	paraventricular (93.09%, 36.61%)		
		18	487	2.71	-0.04	0.01	superiortemporal (85.42%, 5.72%)			18	444	2.71	-0.04	0.01	superiortemporal (86.71%, 5.30%)		
		19	281	2.70	0.06	0.01	middletemporal (51.96%, 3.28%)			19	290	2.70	0.06	0.01	middletemporal (53.45%, 3.48%)		
		20	289	2.78	-0.06	0.02	inferiortemporal (100%, 6.55%)			20	296	2.78	-0.06	0.02	inferiortemporal (100%, 6.7%)		
	Age at MRI	1	31447	2.64	-0.04	0.01	superiorfrontal (18.02%, 46.52%)			1	31406	2.64	-0.04	0.01	superiorfrontal (18.05%, 46.55%)		
		2	27741	2.65	-0.03	0.01	inferioparietal (17.26%, 60.84%)			2	27678	2.65	-0.03	0.01	inferioparietal (17.24%, 60.61%)		
		3	971	2.80	-0.03	0.01	fusiform (66.43%, 13.68%)			3	957	2.80	-0.03	0.01	fusiform (66.88%, 13.58%)		
	Height	1	695	2.59	0.00	0.00	lateralorbitofrontal (87.77%, 14.57%)			1	934	2.64	0.00	0.00	lateralorbitofrontal (86.19%, 19.22%)		
		2	383	2.53	0.00	0.00	medialorbitofrontal (71.28%, 10.29%)			2	449	2.53	0.00	0.00	medialorbitofrontal (69.49%, 11.76%)		
		1	4291	2.71	-0.06	0.01	precuneus (38.41%, 22.55%)			1	4231	2.71	-0.06	0.01	precuneus (38.29%, 22.17%)		
		2	3204	2.66	-0.05	0.01	lateraloccipital (54.31%, 27.28%)			2	3157	2.66	-0.05	0.01	lateraloccipital (54.93%, 27.18%)		
		3	2115	2.63	-0.04	0.01	inferioparietal (40.38%, 10.85%)			3	2083	2.63	-0.04	0.01	inferioparietal (40.23%, 10.65%)		
		4	2905	2.61	-0.04	0.01	superiortemporal (36.52%, 14.59%)			4	2816	2.61	-0.04	0.01	superiortemporal (36.47%, 14.12%)		
		5	2243	2.72	-0.04	0.01	paracentral (45.52%, 31.00%)			5	2205	2.71	-0.04	0.01	paracentral (45.12%, 30.21%)		
		6	1396	2.59	-0.04	0.01	isthmuscingulate (50.86%, 28.05%)			6	1389	2.59	-0.04	0.01	isthmuscingulate (51.12%, 28.05%)		
		7	625	2.59	-0.04	0.01	fusiform (95.84%, 12.71%)			7	609	2.59	-0.04	0.01	fusiform (96.22%, 12.43%)		
		8	385	2.74	-0.06	0.02	inferiortemporal (85.19%, 7.43%)			8	378	2.74	-0.06	0.02	inferiortemporal (84.92%, 7.27%)		
		9	252	2.73	0.04	0.01	lingual (100%, 5.99%)			9	243	2.73	0.04	0.01	lingual (100%, 5.78%)		
		10	226	2.68	0.07	0.02	superiortemporal (61.06%, 1.90%)			10	401	2.72	-0.04	0.01	fusiform (56.86%, 4.84%)		
		11	382	2.72	-0.04	0.01	fusiform (56.81%, 4.60%)			11	219	2.68	0.07	0.02	superiortemporal (61.64%, 1.86%)		
		1	2031	2.69	0.04	0.01	fusiform (25.21%, 10.86%)			1	1983	2.70	0.03	0.01	fusiform (24.86%, 10.46%)		
		2	995	2.65	0.03	0.01	lateraloccipital (93.97%, 14.66%)			2	1011	2.66	0.03	0.01	lateraloccipital (93.77%, 14.86%)		
		3	609	2.66	-0.02	0.01	superiorfrontal (81.94%, 4.10%)			3	652	2.67	-0.02	0.01	superiorfrontal (80.98%, 4.34%)		
		4	573	2.59	0.02	0.01	postcentral (100%, 6.02%)			4	575	2.59	0.02	0.01	postcentral (100%, 6.04%)		
										5	482	2.64	-0.02	0.01	superiorfrontal (76.14%, 3.01%)		
Right hemisphere		(Intercept)	1	145637	2.65	2.99	0.17	superiorfrontal (8.15%, 99.93%)			(Intercept)	1	145637	2.65	3.00	0.17	superiorfrontal (8.15%, 99.93%)
		1	9801	2.68	-0.05	0.01	precuneus (52.88%, 64.99%)			1	9456	2.68	-0.05	0.01	precuneus (52.54%, 62.29%)		
		2	2907	2.61	-0.04	0.01	rostralmiddlefrontal (99.07%, 36.62%)			2	2830	2.61	-0.04	0.01	rostralmiddlefrontal (99.33%, 35.75%)		
		3	2305	2.63	-0.04	0.01	superioparietal (47.85%, 10.79%)			3	2284	2.63	-0.04	0.01	superioparietal (48.25%, 10.78%)		
		4	3176	2.69	-0.04	0.01	insula (54.72%, 34.15%)			4	3110	2.69	-0.04	0.01	insula (55.31%, 33.79%)		
		5	1466	2.59	0.06	0.01	middletemporal (51.98%, 15.07%)			5	1467	2.59	0.06	0.01	middletemporal (51.74%, 15.01%)		
		6	1269	2.59	0.05	0.01	pericalcarine (89.76%, 62.48%)			6	1245	2.59	0.05	0.01	pericalcarine (90.6%, 61.88%)		
		7	1279	2.62	0.06	0.01	postcentral (100%, 14%)			7	1293	2.62	0.06	0.01	postcentral (100%, 14.15%)		
		8	955	2.62	0.06	0.01	parahippocampal (64.61%, 35.42%)			8	955	2.62	0.06	0.01	parahippocampal (65.97%, 36.17%)		
		9	1003	2.55	-0.04	0.01	superiorfrontal (76.17%, 6.43%)			9	963	2.54	-0.04	0.01	superiorfrontal (75.7%, 6.14%)		
		10	823	2.59	-0.04	0.01	rostralmiddlefrontal (94.41%, 9.88%)			10	789	2.60	-0.04	0.01	rostralmiddlefrontal (92.4%, 9.27%)		
		11	1072	2.63	0.03	0.01	postcentral (55.88%, 6.56%)			11	1101	2.63	0.03	0.01	postcentral (55.31%, 6.66%)		
		12	802	2.63	-0.04	0.01	inferioparietal (100%, 8.29%)			12	768	2.63	-0.04	0.01	inferioparietal (100%, 7.94%)		
		13	835	2.68	0.05	0.01	precentral (100%, 7.8%)			13	820	2.69	0.05	0.01	precentral (100%, 7.66%)		
		14	599	2.60	-0.04	0.01	lateralorbitofrontal (100%, 13.76%)			14	569	2.60	-0.04	0.01	lateralorbitofrontal (100%, 13.07%)		
		15	563	2.54	0.04	0.01	postcentral (72.65%, 4.48%)			15	607	2.54	0.04	0.01	postcentral (70.84%, 4.71%)		
		16	421	2.74	-0.04	0.01	fusiform (100%, 9.03%)			16	463	2.67	-0.05	0.01	medialorbitofrontal (71.06%, 11.75%)		
		17	470	2.67	-0.05	0.01	medialorbitofrontal (71.49%, 12.00%)			17	278	2.62	0.04	0.01	paraventricular (100%, 29.39%)		
		18	519	2.77	-0.04	0.01	superiortemporal (81.31%, 6.14%)			18	505	2.76	-0.04	0.01	superiortemporal (81.98%, 6.03%)		
		19	512	2.70	-0.04	0.01	supramarginal (100%, 6.28%)			19	503	2.70	-0.04	0.01	supramarginal (100%, 6.17%)		
	20	387	2.65	-0.04	0.01	superiorfrontal (62.27%, 2.03%)			20	346	2.73	-0.04	0.01	fusiform (100%, 7.42%)			
	21	254	2.62	0.04	0.01	paraventricular (100%, 26.85%)			21	342	2.67	-0.04	0.01	superiorfrontal (62.87%, 1.81%)			
		1	37347	2.65	-0.04	0.01	precuneus (15.67%, 73.38%)			1	37324	2.65	-0.04	0.01	precuneus (15.63%, 73.14%)		
		2	12582	2.64	-0.03	0.01	inferioparietal (44.76%, 58.21%)			2	12528	2.64	-0.03	0.01	inferioparietal (44.67%, 57.83%)		
		3	2458	2.69	-0.03	0.01	lateraloccipital (45.65%, 18.82%)			3	2456	2.69	-0.03	0.01	lateraloccipital (45.64%, 18.80%)		
		4	1259	2.70	-0.03	0.01	fusiform (94.44%, 25.51%)			4	1092	2.70	-0.03	0.01	fusiform (95.51%, 22.38%)		
		5	650	2.71	-0.03	0.01	precentral (48.92%, 2.97%)			5	666	2.71	-0.03	0.01	precentral (48.95%, 3.05%)		
		6	611	2.62	-0.03	0.01	superiorfrontal (36.66%, 1.89%)			6	607	2.63	-0.03	0.01	superiorfrontal (37.4%, 1.91%)		
		7	459	2.53	-0.03	0.01	caudalmiddlefrontal (100%, 13.14%)			7	457	2.53	-0.03	0.01	caudalmiddlefrontal (100%, 13.08%)		
		8	710	2.74	-0.03	0.01	supramarginal (91.55%, 7.98%)			8	718	2.75	-0.03	0.01	supramarginal (91.78%, 8.09%)		
	Height	1	612	2.61	0.00	0.00	lateralorbitofrontal (100%, 14.06%)			1	656	2.60	0.00	0.00	lateralorbitofrontal (100%, 15.07%)		
		1	5229	2.63	-0.06	0.01	precuneus (36.72%, 24.08%)			1	272	2.66	0.00	0.00	lateraloccipital (58.46%, 2.67%)		
		2	3611	2.65	-0.05	0.01	lateraloccipital (77.76%, 47.09%)			1	5163	2.63	-0.06	0.01	precuneus (36.41%, 23.57%)		
		3	1787	2.64	-0.04	0.01	inferioparietal (31.34%, 5.79%)			2	3562	2.65	-0.05	0.01	lateraloccipital (77.82%, 46.49%)		
		4	2278	2.64	-0.05	0.01	superiortemporal (48.99%, 16.25%)			3	1743	2.64	-0.04	0.01	middletemporal (31.50%, 10.86%)		
		5	882	2.64	-0.05	0.01	superioparietal (66.67%, 5.75%)			4	2255	2.64					

Table S12 - Birth-related covariates

CAROTID INTIMA-MEDIA THICKNESS (IMT)										CAROTID DISTENSIBILITY											
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		
	Total brain volume (TBV)										Total brain volume (TBV)										
Fully adjusted model (R ² = .21)	(Intercept)	-1.98	0.56	-3.55	206.2	0.000	0.000	-3.08	-0.88	Fully adjusted model (R ² = .21)	(Intercept)	-2.04	0.55	-3.70	227.0	0.000	0.000	-3.13	-0.96		
	IMT (z-score)	0.02	0.02	1.10	72.5	0.275	0.550	-0.02	0.05		Distensibility (z-score)	0.01	0.02	0.50	102.7	0.617	0.835	-0.02	0.04		
	Female sex	-0.73	0.03	-23.87	159.2	0.000	0.000	-0.79	-0.67		Female sex	-0.73	0.03	-24.46	183.6	0.000	0.000	-0.79	-0.67		
	Age at MRI	0.02	0.05	0.50	282.4	0.618	0.618	-0.07	0.11		Age at MRI	0.02	0.05	0.51	291.0	0.612	0.612	-0.07	0.11		
	Age delta	0.00	0.04	-0.04	215.8	0.969	0.977	-0.08	0.08		Age delta	0.00	0.04	-0.05	219.8	0.959	0.987	-0.08	0.08		
	Height	0.01	0.00	5.38	266.4	0.000	0.000	0.01	0.02		Height	0.01	0.00	5.41	202.3	0.000	0.000	0.01	0.02		
	Non-European ethnicity	-0.22	0.03	-7.08	502.8	0.000	0.000	-0.28	-0.16		Non-European ethnicity	-0.22	0.03	-7.08	568.0	0.000	0.000	-0.28	-0.16		
	BMI (z-score)	0.03	0.02	2.12	209.0	0.035	0.140	0.00	0.06		BMI (z-score)	0.03	0.02	2.22	217.4	0.028	0.112	0.00	0.06		
	Parental education	0.02	0.01	3.24	123.0	0.002	0.004	0.01	0.04		Parental education	0.03	0.01	3.28	124.5	0.001	0.002	0.01	0.04		
	Maternal age	0.00	0.00	1.24	214.1	0.218	0.291	0.00	0.01		Maternal age	0.00	0.00	1.22	217.7	0.223	0.297	0.00	0.01		
Fully adjusted model (R ² = .22)	Birth weight	0.16	0.02	8.69	303.0	0.000	0.000	0.12	0.20	Fully adjusted model (R ² = .22)	Birth weight	0.16	0.02	8.73	290.0	0.000	0.000	0.13	0.20		
	Gestational age (birth)	-0.04	0.02	-1.95	233.8	0.052	0.208	-0.07	0.00		Gestational age (birth)	-0.04	0.02	-1.97	240.3	0.050	0.200	-0.07	0.00		
	Grey matter volume (GMV)										Grey matter volume (GMV)										
	(Intercept)	-1.06	0.56	-1.89	187.6	0.060	0.069	-2.17	0.05		(Intercept)	-1.13	0.56	-2.03	197.3	0.044	0.050	-2.23	-0.03		
	IMT (z-score)	0.02	0.02	1.38	87.2	0.173	0.550	-0.01	0.06		Distensibility (z-score)	0.01	0.02	0.36	125.2	0.721	0.835	-0.03	0.04		
	Female sex	-0.73	0.03	-24.13	152.6	0.000	0.000	-0.79	-0.67		Female sex	-0.74	0.03	-24.18	147.5	0.000	0.000	-0.80	-0.68		
	Age at MRI	-0.03	0.05	-0.67	130.9	0.502	0.574	-0.13	0.06		Age at MRI	-0.03	0.05	-0.66	131.3	0.508	0.581	-0.13	0.06		
	Age delta	0.00	0.05	0.04	91.5	0.969	0.977	-0.09	0.10		Age delta	0.00	0.05	0.03	91.2	0.977	0.987	-0.09	0.10		
	Height	0.01	0.00	4.65	220.9	0.000	0.000	0.01	0.02		Height	0.01	0.00	4.73	177.4	0.000	0.000	0.01	0.02		
	Non-European ethnicity	-0.24	0.03	-7.19	212.4	0.000	0.000	-0.31	-0.17		Non-European ethnicity	-0.24	0.03	-7.15	219.4	0.000	0.000	-0.30	-0.17		
Fully adjusted model (R ² = .01)	BMI (z-score)	0.02	0.02	1.23	162.4	0.219	0.292	-0.01	0.05	Fully adjusted model (R ² = .01)	BMI (z-score)	0.02	0.02	1.31	170.3	0.191	0.255	-0.01	0.05		
	Parental education	0.03	0.01	3.87	129.5	0.000	0.000	0.01	0.04		Parental education	0.03	0.01	3.91	130.9	0.000	0.000	0.01	0.04		
	Maternal age	0.01	0.00	1.64	218.9	0.102	0.291	0.00	0.01		Maternal age	0.01	0.00	1.62	219.2	0.106	0.297	0.00	0.01		
	Birth weight	0.16	0.02	8.23	213.1	0.000	0.000	0.12	0.19		Birth weight	0.16	0.02	8.26	201.0	0.000	0.000	0.12	0.19		
	Gestational age (birth)	-0.02	0.02	-1.06	132.0	0.293	0.586	-0.06	0.02		Gestational age (birth)	-0.02	0.02	-1.08	133.6	0.283	0.566	-0.06	0.02		
	Global fractional anisotropy (FA)										Global fractional anisotropy (FA)										
	(Intercept)	-1.64	0.62	-2.63	216.5	0.009	0.024	-2.86	-0.41		(Intercept)	-1.65	0.61	-2.68	240.1	0.008	0.021	-2.86	-0.44		
	IMT (z-score)	0.00	0.02	-0.24	136.1	0.809	0.809	-0.04	0.03		Distensibility (z-score)	0.02	0.02	0.89	141.2	0.375	0.750	-0.02	0.05		
	Female sex	-0.02	0.03	-0.58	222.7	0.565	0.565	-0.08	0.05		Female sex	-0.02	0.03	-0.63	204.7	0.529	0.529	-0.09	0.04		
	Age at MRI	0.07	0.05	1.30	153.3	0.197	0.315	-0.04	0.18		Age at MRI	0.07	0.05	1.29	154.5	0.200	0.320	-0.04	0.18		
Fully adjusted model (R ² = .01)	Age delta	0.00	0.05	0.03	146.1	0.977	0.977	-0.10	0.10	Fully adjusted model (R ² = .01)	Age delta	0.00	0.05	0.02	147.8	0.987	0.987	-0.10	0.10		
	Height	0.00	0.00	1.14	296.9	0.257	0.343	0.00	0.01		Height	0.00	0.00	1.17	224.3	0.242	0.323	0.00	0.01		
	Non-European ethnicity	-0.04	0.04	-1.19	247.5	0.234	0.312	-0.12	0.03		Non-European ethnicity	-0.05	0.04	-1.23	247.7	0.221	0.295	-0.12	0.03		
	BMI (z-score)	0.00	0.02	-0.03	120.3	0.978	0.978	-0.04	0.04		BMI (z-score)	0.00	0.02	0.09	129.0	0.931	0.931	-0.03	0.04		
	Parental education	0.01	0.01	1.76	282.5	0.079	0.105	0.00	0.03		Parental education	0.01	0.01	1.75	290.9	0.081	0.108	0.00	0.03		
	Maternal age	0.01	0.00	1.37	230.8	0.171	0.291	0.00	0.01		Maternal age	0.01	0.00	1.37	231.7	0.172	0.297	0.00	0.01		
	Birth weight	0.01	0.02	0.60	124.4	0.547	0.547	-0.03	0.06		Birth weight	0.01	0.02	0.60	120.6	0.548	0.548	-0.03	0.06		
	Gestational age (birth)	-0.01	0.02	-0.55	147.7	0.582	0.776	-0.05	0.03		Gestational age (birth)	-0.01	0.02	-0.55	146.3	0.582	0.776	-0.05	0.03		
	Global mean diffusivity (MD)										Global mean diffusivity (MD)										
	(Intercept)	1.54	0.63	2.46	197.1	0.015	0.026	0.31	2.77		(Intercept)	1.54	0.63	2.45	186.3	0.015	0.027	0.30	2.78		
Fully adjusted model (R ² = .01)	IMT (z-score)	0.01	0.02	0.70	200.3	0.487	0.649	-0.02	0.04	Fully adjusted model (R ² = .01)	Distensibility (z-score)	-0.02	0.02	-1.12	157.9	0.264	0.750	-0.05	0.02		
	Female sex	-0.15	0.03	-4.81	271.9	0.000	0.000	-0.22	-0.09		Female sex	-0.15	0.03	-4.77	270.3	0.000	0.000	-0.22	-0.09		
	Age at MRI	-0.08	0.05	-1.62	388.4	0.107	0.214	-0.18	0.02		Age at MRI	-0.08	0.05	-1.60	377.9	0.111	0.222	-0.17	0.02		
	Age delta	-0.03	0.05	-0.57	206.0	0.569	0.977	-0.12	0.07		Age delta	-0.03	0.05	-0.55	202.7	0.581	0.987	-0.12	0.07		
	Height	0.00	0.00	-0.43	171.1	0.665	0.760	-0.01	0.00		Height	0.00	0.00	-0.47	156.1	0.641	0.733	-0.01	0.00		
	Non-European ethnicity	0.00	0.04	-0.06	202.2	0.952	0.952	-0.08	0.07		Non-European ethnicity	0.00	0.04	0.00	203.6	0.999	0.999	-0.07	0.07		
	BMI (z-score)	-0.02	0.02	-1.25	105.0	0.214	0.292	-0.06	0.01		BMI (z-score)	-0.03	0.02	-1.39	112.6	0.168	0.255	-0.06	0.01		
	Parental education	0.00	0.01	0.09	124.4	0.926	0.926	-0.02	0.02		Parental education	0.00	0.01	0.12	124.4	0.903	0.903	-0.02	0.02		
	Maternal age	0.00	0.00	-0.72	174.5	0.472	0.472	-0.01	0.00		Maternal age	0.00	0.00	-0.72	173.7	0.471	0.471	-0.01	0.00		
	Birth weight	0.04	0.02	2.00	532.3	0.046	0.061	0.00	0.08		Birth weight	0.04	0.02	2.01	494.3	0.045	0.060	0.00	0.08		
Gestational age (birth)	-0.01	0.02	-0.25	227.0	0.801	0.801	-0.05	0.04	Gestational age (birth)	-0.01	0.02	-0.26	228.6	0.799	0.799	-0.05	0.04				

* SE = standard error; Df = degrees of freedom; FDR = false discovery rate; LCI = lower limit of the 95% confidence interval; UCI = upper limit of the 95% confidence interval;

Table S12 - Birth-related covariates (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)										DIASTOLIC BLOOD PRESSURE (DBP)											
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		
	Total brain volume (TBV)										Total brain volume (TBV)										
Fully adjusted model (R ² = .21)	(Intercept)	-2.13	0.56	-3.80	206.1	0.000	0.000	-3.23	-1.03	Fully adjusted model (R ² = .21)	(Intercept)	-2.05	0.55	-3.73	231.6	0.000	0.000	-3.13	-0.97		
	SBP (z-score)	-0.03	0.02	-1.58	218.9	0.115	0.230	-0.06	0.01		DBP (z-score)	-0.04	0.01	-2.75	254.7	0.006	0.024	-0.07	-0.01		
	Female sex	-0.73	0.03	-24.19	173.0	0.000	0.000	-0.78	-0.67		Female sex	-0.72	0.03	-24.16	174.2	0.000	0.000	-0.78	-0.67		
	Age at MRI	0.02	0.05	0.52	283.0	0.605	0.605	-0.07	0.11		Age at MRI	0.02	0.05	0.53	291.7	0.600	0.600	-0.07	0.11		
	Age delta	0.00	0.04	-0.09	218.1	0.932	0.991	-0.09	0.08		Age delta	0.00	0.04	-0.09	218.8	0.932	0.994	-0.09	0.08		
	Height	0.01	0.00	5.69	239.7	0.000	0.000	0.01	0.02		Height	0.01	0.00	5.56	240.8	0.000	0.000	0.01	0.02		
	Non-European ethnicity	-0.22	0.03	-7.12	592.8	0.000	0.000	-0.28	-0.16		Non-European ethnicity	-0.22	0.03	-7.06	602.4	0.000	0.000	-0.28	-0.16		
	BMI (z-score)	0.04	0.02	2.63	296.2	0.009	0.036	0.01	0.07		BMI (z-score)	0.04	0.02	2.35	209.0	0.020	0.080	0.01	0.06		
	Parental education	0.02	0.01	3.22	126.2	0.002	0.004	0.01	0.04		Parental education	0.02	0.01	3.15	120.0	0.002	0.004	0.01	0.04		
	Maternal age	0.00	0.00	1.24	216.7	0.217	0.289	0.00	0.01		Maternal age	0.00	0.00	1.18	212.6	0.239	0.319	0.00	0.01		
Fully adjusted model (R ² = .22)	Birth weight	0.16	0.02	8.48	264.4	0.000	0.000	0.12	0.20	Fully adjusted model (R ² = .22)	Birth weight	0.16	0.02	8.62	288.8	0.000	0.000	0.12	0.20		
	Gestational age (birth)	-0.04	0.02	-1.95	240.3	0.053	0.212	-0.07	0.00		Gestational age (birth)	-0.04	0.02	-1.96	243.1	0.051	0.204	-0.07	0.00		
	Grey matter volume (GMV)										Grey matter volume (GMV)										
	(Intercept)	-1.24	0.56	-2.22	198.8	0.028	0.037	-2.34	-0.14		(Intercept)	-1.14	0.55	-2.07	207.7	0.040	0.046	-2.23	-0.05		
	SBP (z-score)	-0.03	0.02	-1.73	118.7	0.086	0.229	-0.06	0.00		DBP (z-score)	-0.05	0.02	-2.92	118.4	0.004	0.024	-0.08	-0.02		
	Female sex	-0.73	0.03	-23.94	141.2	0.000	0.000	-0.80	-0.67		Female sex	-0.73	0.03	-23.72	134.5	0.000	0.000	-0.79	-0.67		
	Age at MRI	-0.03	0.05	-0.65	129.8	0.516	0.590	-0.13	0.07		Age at MRI	-0.03	0.05	-0.65	132.6	0.516	0.590	-0.13	0.07		
	Age delta	0.00	0.05	-0.01	91.9	0.991	0.991	-0.09	0.09		Age delta	0.00	0.05	-0.01	93.4	0.994	0.994	-0.09	0.09		
	Height	0.01	0.00	5.08	208.3	0.000	0.000	0.01	0.02		Height	0.01	0.00	4.86	195.6	0.000	0.000	0.01	0.02		
	Non-European ethnicity	-0.24	0.03	-7.19	223.3	0.000	0.000	-0.30	-0.17		Non-European ethnicity	-0.24	0.03	-7.12	223.7	0.000	0.000	-0.30	-0.17		
Fully adjusted model (R ² = .01)	BMI (z-score)	0.03	0.02	1.76	149.8	0.081	0.162	0.00	0.06	Fully adjusted model (R ² = .01)	BMI (z-score)	0.02	0.02	1.49	162.7	0.138	0.276	-0.01	0.05		
	Parental education	0.03	0.01	3.86	137.6	0.000	0.000	0.01	0.04		Parental education	0.03	0.01	3.81	136.5	0.000	0.000	0.01	0.04		
	Maternal age	0.01	0.00	1.64	216.4	0.102	0.289	0.00	0.01		Maternal age	0.01	0.00	1.58	215.2	0.116	0.319	0.00	0.01		
	Birth weight	0.15	0.02	8.07	204.0	0.000	0.000	0.12	0.19		Birth weight	0.16	0.02	8.16	204.5	0.000	0.000	0.12	0.19		
	Gestational age (birth)	-0.02	0.02	-1.05	135.5	0.295	0.590	-0.06	0.02		Gestational age (birth)	-0.02	0.02	-1.06	134.1	0.290	0.580	-0.06	0.02		
	Global fractional anisotropy (FA)										Global fractional anisotropy (FA)										
	(Intercept)	-1.61	0.62	-2.59	228.7	0.010	0.027	-2.83	-0.39		(Intercept)	-1.62	0.62	-2.64	232.6	0.009	0.024	-2.84	-0.41		
	SBP (z-score)	0.00	0.02	0.20	131.4	0.841	0.841	-0.03	0.04		DBP (z-score)	0.00	0.02	0.05	113.9	0.958	0.958	-0.04	0.04		
	Female sex	-0.02	0.03	-0.56	199.6	0.576	0.576	-0.08	0.05		Female sex	-0.02	0.03	-0.55	196.6	0.582	0.582	-0.08	0.05		
	Age at MRI	0.07	0.05	1.29	156.1	0.197	0.315	-0.04	0.18		Age at MRI	0.07	0.05	1.30	154.5	0.197	0.315	-0.04	0.18		
Age delta	0.00	0.05	0.04	143.2	0.971	0.991	-0.10	0.10	Age delta	0.00	0.05	0.03	145.9	0.976	0.994	-0.10	0.10				
Fully adjusted model (R ² = .01)	Height	0.00	0.00	1.05	290.9	0.294	0.392	0.00	0.01	Fully adjusted model (R ² = .01)	Height	0.00	0.00	1.11	275.7	0.270	0.360	0.00	0.01		
	Non-European ethnicity	-0.04	0.04	-1.21	251.9	0.229	0.305	-0.12	0.03		Non-European ethnicity	-0.05	0.04	-1.21	245.4	0.228	0.304	-0.12	0.03		
	BMI (z-score)	0.00	0.02	-0.09	114.8	0.926	0.926	-0.04	0.04		BMI (z-score)	0.00	0.02	-0.04	112.9	0.969	0.969	-0.04	0.04		
	Parental education	0.01	0.01	1.77	298.9	0.078	0.104	0.00	0.03		Parental education	0.01	0.01	1.76	282.8	0.080	0.107	0.00	0.03		
	Maternal age	0.01	0.00	1.38	231.9	0.171	0.289	0.00	0.01		Maternal age	0.01	0.00	1.38	241.1	0.168	0.319	0.00	0.01		
	Birth weight	0.01	0.02	0.60	114.9	0.549	0.549	-0.03	0.06		Birth weight	0.01	0.02	0.60	124.8	0.552	0.552	-0.03	0.06		
	Gestational age (birth)	-0.01	0.02	-0.55	144.6	0.583	0.777	-0.05	0.03		Gestational age (birth)	-0.01	0.02	-0.55	146.0	0.584	0.779	-0.05	0.03		
	Global mean diffusivity (MD)										Global mean diffusivity (MD)										
	(Intercept)	1.49	0.63	2.38	203.3	0.018	0.036	0.26	2.73		(Intercept)	1.50	0.63	2.39	187.1	0.018	0.035	0.26	2.74		
	SBP (z-score)	0.00	0.02	-0.23	127.8	0.822	0.841	-0.04	0.03		DBP (z-score)	-0.01	0.02	-0.70	158.5	0.486	0.648	-0.05	0.02		
Female sex	-0.16	0.03	-4.89	283.7	0.000	0.000	-0.22	-0.09	Female sex	-0.15	0.03	-4.81	260.9	0.000	0.000	-0.22	-0.09				
Age at MRI	-0.08	0.05	-1.61	380.8	0.109	0.218	-0.18	0.02	Age at MRI	-0.08	0.05	-1.60	379.6	0.109	0.218	-0.18	0.02				
Age delta	-0.03	0.05	-0.58	199.7	0.565	0.991	-0.12	0.07	Age delta	-0.03	0.05	-0.58	205.6	0.560	0.994	-0.12	0.07				
Height	0.00	0.00	-0.32	179.7	0.752	0.859	-0.01	0.01	Height	0.00	0.00	-0.34	165.9	0.736	0.841	-0.01	0.00				
Non-European ethnicity	0.00	0.04	-0.03	196.8	0.975	0.975	-0.08	0.07	Non-European ethnicity	0.00	0.04	-0.01	195.9	0.990	0.990	-0.08	0.07				
BMI (z-score)	-0.02	0.02	-1.10	105.5	0.272	0.363	-0.06	0.02	BMI (z-score)	-0.02	0.02	-1.15	100.9	0.251	0.335	-0.06	0.02				
Parental education	0.00	0.01	0.10	123.7	0.919	0.919	-0.02	0.02	Parental education	0.00	0.01	0.07	125.1	0.942	0.942	-0.02	0.02				
Maternal age	0.00	0.00	-0.73	175.5	0.468	0.468	-0.01	0.00	Maternal age	0.00	0.00	-0.74	175.2	0.459	0.459	-0.01	0.00				
Fully adjusted model (R ² = .01)	Birth weight	0.04	0.02	1.99	466.8	0.047	0.063	0.00	0.08	Fully adjusted model (R ² = .01)	Birth weight	0.04	0.02	1.98	468.3	0.048	0.064	0.00	0.08		
	Gestational age (birth)	-0.01	0.02	-0.26	230.2	0.798	0.798	-0.05	0.03		Gestational age (birth)	-0.01	0.02	-0.25	226.3	0.800	0.800	-0.05	0.04		

* SE = standard error; Df = degrees of freedom; FDR = false discovery rate; LCI = lower limit of the 95% confidence interval; UCI = upper limit of the 95% confidence interval;

Table S13 - Sensitivity (complete MRI data)

CAROTID INTIMA-MEDIA THICKNESS (IMT)										CAROTID DISTENSIBILITY											
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		
Base model (R ² = .31)	Total brain volume (TBV)										Base model (R ² = .31)	Total brain volume (TBV)									
	(Intercept)	-0.87	0.69	-1.26	1393.0	0.207	0.211	-2.23	0.48	(Intercept)		-0.97	0.70	-1.40	1294.2	0.163	0.178	-2.34	0.39		
	IMT (z-score)	0.03	0.02	1.20	356.0	0.232	0.464	-0.02	0.07	Distensibility (z-score)		0.01	0.02	0.60	409.4	0.547	0.736	-0.03	0.05		
	Female sex	-1.06	0.04	-28.79	2033.9	0.000	0.000	-1.14	-0.99	Female sex		-1.07	0.04	-28.84	2034.1	0.000	0.000	-1.14	-1.00		
	Age at MRI	-0.19	0.06	-3.16	1114.5	0.002	0.008	-0.32	-0.07	Age at MRI		-0.19	0.06	-3.15	1109.2	0.002	0.008	-0.31	-0.07		
	Age delta	0.17	0.06	2.93	892.4	0.003	0.012	0.06	0.28	Age delta		0.17	0.06	2.92	884.0	0.004	0.016	0.06	0.28		
	Height	0.02	0.00	8.24	1414.9	0.000	0.000	0.02	0.03	Height		0.03	0.00	8.39	1445.1	0.000	0.000	0.02	0.03		
Fully adjusted model (R ² = .36)	(Intercept)	-2.32	0.70	-3.32	1099.7	0.001	0.008	-3.69	-0.95	Fully adjusted model (R ² = .36)	(Intercept)	-2.41	0.70	-3.44	1073.8	0.001	0.008	-3.78	-1.04		
	IMT (z-score)	0.02	0.02	1.21	395.9	0.228	0.464	-0.02	0.06		Distensibility (z-score)	0.01	0.02	0.60	291.5	0.552	0.736	-0.03	0.05		
	Female sex	-1.05	0.04	-29.56	2017.1	0.000	0.000	-1.12	-0.98		Female sex	-1.06	0.04	-29.61	2014.3	0.000	0.000	-1.13	-0.99		
	Age at MRI	-0.08	0.06	-1.26	783.1	0.209	0.279	-0.20	0.04		Age at MRI	-0.08	0.06	-1.25	784.8	0.212	0.283	-0.20	0.04		
	Age delta	0.08	0.06	1.43	604.0	0.153	0.306	-0.03	0.20		Age delta	0.08	0.06	1.42	606.1	0.156	0.312	-0.03	0.19		
	Height	0.02	0.00	6.69	1273.1	0.000	0.000	0.01	0.03		Height	0.02	0.00	6.86	1368.9	0.000	0.000	0.02	0.03		
	Non-European ethnicity	-0.32	0.04	-7.56	1782.7	0.000	0.000	-0.40	-0.23		Non-European ethnicity	-0.31	0.04	-7.52	1821.1	0.000	0.000	-0.40	-0.23		
	BMI (z-score)	0.04	0.02	2.15	809.8	0.032	0.128	0.00	0.08		BMI (z-score)	0.05	0.02	2.21	598.2	0.027	0.108	0.01	0.09		
	Parental education	0.05	0.01	4.94	1069.5	0.000	0.000	0.03	0.06		Parental education	0.05	0.01	5.00	1029.3	0.000	0.000	0.03	0.06		
	Maternal age	0.02	0.00	4.21	1962.1	0.000	0.000	0.01	0.02		Maternal age	0.02	0.00	4.23	1959.0	0.000	0.000	0.01	0.02		
Base model (R ² = .32)	Grey matter volume (GMV)										Base model (R ² = .32)	Grey matter volume (GMV)									
	(Intercept)	1.01	0.68	1.48	1449.6	0.139	0.185	-0.33	2.35	(Intercept)		0.93	0.69	1.35	1413.6	0.178	0.178	-0.42	2.28		
	IMT (z-score)	0.03	0.02	1.40	400.9	0.163	0.464	-0.01	0.07	Distensibility (z-score)		0.01	0.02	0.30	457.5	0.762	0.871	-0.03	0.05		
	Female sex	-1.07	0.04	-29.27	2033.5	0.000	0.000	-1.15	-1.00	Female sex		-1.08	0.04	-29.27	2032.0	0.000	0.000	-1.15	-1.01		
	Age at MRI	-0.32	0.06	-5.24	1168.6	0.000	0.000	-0.44	-0.20	Age at MRI		-0.32	0.06	-5.23	1177.1	0.000	0.000	-0.44	-0.20		
	Age delta	0.19	0.06	3.38	932.6	0.001	0.008	0.08	0.31	Age delta		0.19	0.06	3.37	938.2	0.001	0.008	0.08	0.31		
	Height	0.02	0.00	7.72	1340.8	0.000	0.000	0.02	0.03	Height		0.02	0.00	7.83	1397.6	0.000	0.000	0.02	0.03		
Fully adjusted model (R ² = .39)	(Intercept)	-0.85	0.68	-1.25	1141.9	0.211	0.211	-2.18	0.48	Fully adjusted model (R ² = .39)	(Intercept)	-0.92	0.68	-1.36	1172.6	0.176	0.178	-2.26	0.41		
	IMT (z-score)	0.03	0.02	1.45	445.1	0.147	0.464	-0.01	0.07		Distensibility (z-score)	0.00	0.02	0.10	308.5	0.921	0.921	-0.04	0.04		
	Female sex	-1.06	0.04	-30.58	2006.7	0.000	0.000	-1.13	-0.99		Female sex	-1.07	0.04	-30.56	1997.9	0.000	0.000	-1.14	-1.00		
	Age at MRI	-0.18	0.06	-2.99	776.8	0.003	0.008	-0.29	-0.06		Age at MRI	-0.18	0.06	-2.99	786.0	0.003	0.008	-0.29	-0.06		
	Age delta	0.09	0.06	1.58	594.4	0.114	0.304	-0.02	0.20		Age delta	0.09	0.06	1.59	604.4	0.113	0.301	-0.02	0.20		
	Height	0.02	0.00	6.28	1165.9	0.000	0.000	0.01	0.02		Height	0.02	0.00	6.41	1289.4	0.000	0.000	0.01	0.02		
	Non-European ethnicity	-0.36	0.04	-8.90	1750.0	0.000	0.000	-0.44	-0.28		Non-European ethnicity	-0.36	0.04	-8.85	1789.7	0.000	0.000	-0.44	-0.28		
	BMI (z-score)	0.03	0.02	1.33	806.3	0.183	0.244	-0.01	0.06		BMI (z-score)	0.03	0.02	1.35	599.6	0.178	0.237	-0.01	0.07		
	Parental education	0.05	0.01	6.06	1016.9	0.000	0.000	0.04	0.07		Parental education	0.05	0.01	6.12	973.7	0.000	0.000	0.04	0.07		
	Maternal age	0.02	0.00	5.14	1941.7	0.000	0.000	0.01	0.03		Maternal age	0.02	0.00	5.16	1942.4	0.000	0.000	0.01	0.03		
Base model (R ² = .01)	Global fractional anisotropy (FA)										Base model (R ² = .01)	Global fractional anisotropy (FA)									
	(Intercept)	-1.61	0.79	-2.02	1479.8	0.043	0.069	-3.16	-0.05	(Intercept)		-1.73	0.80	-2.17	1466.2	0.030	0.048	-3.29	-0.16		
	IMT (z-score)	-0.01	0.02	-0.26	590.4	0.793	0.793	-0.05	0.04	Distensibility (z-score)		0.04	0.02	1.71	665.3	0.089	0.437	-0.01	0.08		
	Female sex	-0.02	0.04	-0.38	2295.0	0.701	0.723	-0.10	0.07	Female sex		-0.02	0.04	-0.56	2291.7	0.573	0.613	-0.11	0.06		
	Age at MRI	0.01	0.07	0.16	1356.9	0.876	0.876	-0.13	0.15	Age at MRI		0.01	0.07	0.16	1296.6	0.872	0.872	-0.13	0.15		
	Age delta	0.10	0.07	1.57	1021.0	0.117	0.187	-0.03	0.23	Age delta		0.10	0.07	1.53	986.1	0.127	0.203	-0.03	0.23		
	Height	0.01	0.00	2.19	1591.7	0.029	0.046	0.00	0.01	Height		0.01	0.00	2.42	1444.2	0.015	0.024	0.00	0.02		
Fully adjusted model (R ² = .02)	(Intercept)	-2.42	0.82	-2.95	1524.3	0.003	0.011	-4.03	-0.81	Fully adjusted model (R ² = .02)	(Intercept)	-2.49	0.82	-3.04	1541.3	0.002	0.008	-4.09	-0.88		
	IMT (z-score)	-0.01	0.02	-0.34	560.0	0.738	0.793	-0.05	0.04		Distensibility (z-score)	0.04	0.02	1.57	698.3	0.117	0.437	-0.01	0.08		
	Female sex	-0.02	0.04	-0.35	2288.0	0.723	0.723	-0.10	0.07		Female sex	-0.02	0.04	-0.51	2283.0	0.613	0.613	-0.10	0.06		
	Age at MRI	0.06	0.07	0.84	1384.1	0.401	0.458	-0.08	0.20		Age at MRI	0.06	0.07	0.83	1333.9	0.406	0.464	-0.08	0.20		
	Age delta	0.07	0.07	1.03	1053.3	0.302	0.302	-0.06	0.20		Age delta	0.07	0.07	1.00	1033.2	0.316	0.316	-0.06	0.19		
	Height	0.01	0.00	1.65	1419.4	0.099	0.132	0.00	0.01		Height	0.01	0.00	1.82	1342.8	0.069	0.092	0.00	0.01		
	Non-European ethnicity	-0.09	0.05	-1.83	1889.2	0.067	0.089	-0.19	0.01		Non-European ethnicity	-0.09	0.05	-1.86	1911.6	0.063	0.084	-0.19	0.01		
	BMI (z-score)	0.01	0.02	0.29	1817.3	0.772	0.772	-0.04	0.05		BMI (z-score)	0.01	0.02	0.53	1768.1	0.599	0.599	-0.03	0.06		
	Parental education	0.03	0.01	2.33	467.3	0.020	0.027	0.00	0.05		Parental education	0.03	0.01	2.31	479.0	0.021	0.028	0.00	0.05		
	Maternal age	0.01	0.00	2.26	2232.6	0.024	0.032	0.00	0.02		Maternal age	0.01	0.00	2.26	2215.0	0.024	0.032	0.00	0.02		
Base model (R ² = .03)	Global mean diffusivity (MD)										Base model (R ² = .03)	Global mean diffusivity (MD)									
	(Intercept)	2.28	0.78	2.90	1489.3	0.004	0.011	0.74	3.82	(Intercept)		2.34	0.78	2.98	1543.7	0.003	0.008	0.80	3.87		
	IMT (z-score)	0.01	0.02	0.47	595.2	0.636	0.793	-0.03	0.06	Distensibility (z-score)		-0.03	0.02	-1.13	890.9	0.260	0.520	-0.07	0.02		
	Female sex	-0.24	0.04	-5.88	2296.2	0.000	0.000	-0.32	-0.16	Female sex		-0.24	0.04	-5.77	2295.0	0.000	0.000	-0.32	-0.16		
	Age at MRI	-0.09	0.07	-1.28	1004.7	0.201	0.322	-0.23	0.05	Age at MRI		-0.09	0.07	-1.28	983.7	0.202	0.328	-0.23	0.05		
	Age delta	-0.11	0.07	-1.64	740.7	0.102	0.187	-0.24	0.02	Age delta		-0.11	0.07	-1.62	731.3	0.106	0.203	-0.24	0.02		
	Height	0.00	0.00	-0.95	1275.2	0.343	0.392	-0.01	0.00	Height		0.00	0.00	-1.08	1165.5	0.280	0.320	-0.01	0.00		
Fully adjusted model (R ² = .03)	(Intercept)	2.13	0.81	2.62	1571.9	0.009	0.018	0.54	3.72	Fully adjusted model (R ² = .03)	(Intercept)	2.17	0.81	2.69	1640.5	0.007	0.014	0.59	3.76		
	IMT (z-score)	0.01	0.02	0.50	589.9	0.618	0.793	-0.03	0.06		Distensibility (z-score)	-0.03	0.02	-1.39	768.8	0.164	0.437	-0.08	0.01		
	Female sex	-0.25	0.04	-5.93	2290.1	0.000	0.000	-0.33	-0.16		Female sex	-0.24	0.04	-5.80	2291.6	0.000	0.000	-0.32	-0.16		
	Age at MRI	-0.09	0.07	-1.28	988.9	0.200	0.322	-0.23	0.05		Age at MRI	-0.09	0.07	-1.27	955.0	0.205	0.328	-0.23	0.05		
	Age delta	-0.11	0.07	-1.61	728.4	0.109	0.187	-0.24	0.02		Age delta	-0.11	0.07	-1.58	708.6	0.114	0.203	-0.24	0.03		
	Height	0.00	0.00	-0.46	1258.7	0.648	0.648	-0.01	0.01		Height	0.00	0.00	-0.59	1210.4	0.553	0.553	-0.01	0.01		
	Non-European ethnicity	0.02	0.05	0.45	2041.3	0.653	0.653	-0.07	0.12		Non-European ethnicity	0.02	0.05	0.48	2048.5	0.630	0.630	-0.07	0.12		
	BMI (z-score)	-0.04	0.02	-1.81	1718.6	0.070	0.093	-0.08	0.00		BMI (z-score)	-0.04	0.02	-1.99	1523.1	0.047	0.063	-0.09	0.00		
	Parental education	0.00	0.01	0.05	503.1	0.963	0.963	-0.02	0.02		Parental education	0.00	0.01	0.08	526.1	0.935	0.935	-0.02	0.02		
	Maternal age	0.00	0.00	-0.48	2242.0	0.630	0.630	-0.01	0.01		Maternal age	0.00	0.00	-0.48	2237.7	0.632	0.632	-0.01	0.01		

Table S13 - Sensitivity (complete MRI data) (cont'd)

SYSTOLIC BLOOD PRESSURE (SBP)										DIASTOLIC BLOOD PRESSURE (DBP)											
		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI			Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI
Base model (R ² = .31)	Total brain volume (TBV)										Base model (R ² = .32)	Total brain volume (TBV)									
	(Intercept)	-1.39	0.70	-1.98	1303.7	0.048	0.067	-2.77	-0.01	(Intercept)		-1.09	0.69	-1.59	1388.1	0.113	0.151	-2.44	0.26		
	SBP (z-score)	-0.07	0.02	-3.40	1121.6	0.001	0.004	-0.11	-0.03	DBP (z-score)		-0.08	0.02	-3.94	633.0	0.000	0.000	-0.12	-0.04		
	Female sex	-1.06	0.04	-28.78	2035.9	0.000	0.000	-1.13	-0.99	Female sex		-1.05	0.04	-28.34	2006.0	0.000	0.000	-1.12	-0.98		
	Age at MRI	-0.19	0.06	-3.02	1141.1	0.003	0.008	-0.31	-0.07	Age at MRI		-0.19	0.06	-3.05	1111.3	0.002	0.008	-0.31	-0.07		
	Age delta	0.16	0.06	2.76	905.3	0.006	0.024	0.05	0.27	Age delta		0.16	0.06	2.82	903.0	0.005	0.020	0.05	0.28		
	Height	0.03	0.00	9.00	1376.3	0.000	0.000	0.02	0.03	Height		0.03	0.00	8.66	1487.8	0.000	0.000	0.02	0.03		
	(Intercept)	-2.63	0.70	-3.74	1076.3	0.000	0.000	-4.01	-1.25	(Intercept)		-2.42	0.70	-3.47	1122.9	0.001	0.008	-3.78	-1.05		
Fully adjusted model (R ² = .36)	Grey matter volume (GMV)										Fully adjusted model (R ² = .37)	Grey matter volume (GMV)									
	SBP (z-score)	-0.05	0.02	-2.66	1183.0	0.008	0.016	-0.09	-0.01	DBP (z-score)		-0.05	0.02	-2.79	693.2	0.005	0.012	-0.09	-0.02		
	Female sex	-1.05	0.04	-29.47	2013.7	0.000	0.000	-1.12	-0.98	Female sex		-1.04	0.04	-29.19	1995.5	0.000	0.000	-1.11	-0.97		
	Age at MRI	-0.07	0.06	-1.20	827.3	0.232	0.309	-0.19	0.05	Age at MRI		-0.08	0.06	-1.23	810.4	0.218	0.291	-0.19	0.04		
	Age delta	0.08	0.06	1.34	633.2	0.182	0.362	-0.04	0.19	Age delta		0.08	0.06	1.40	631.6	0.163	0.326	-0.03	0.19		
	Height	0.02	0.00	7.22	1269.1	0.000	0.000	0.02	0.03	Height		0.02	0.00	6.95	1308.6	0.000	0.000	0.02	0.03		
	Non-European ethnicity	-0.31	0.04	-7.47	1823.5	0.000	0.000	-0.39	-0.23	Non-European ethnicity		-0.31	0.04	-7.40	1821.1	0.000	0.000	-0.39	-0.23		
	BMI (z-score)	0.06	0.02	2.80	722.3	0.005	0.020	0.02	0.10	BMI (z-score)		0.05	0.02	2.39	794.1	0.017	0.068	0.01	0.09		
Base model (R ² = .32) <td colspan="10">Global fractional anisotropy (FA)</td> <td rowspan="8">Base model (R² = .33)<td colspan="10">Global fractional anisotropy (FA)</td></td>	Global fractional anisotropy (FA)										Base model (R ² = .33) <td colspan="10">Global fractional anisotropy (FA)</td>	Global fractional anisotropy (FA)									
	Parental education	0.05	0.01	4.91	974.2	0.000	0.000	0.03	0.06	Parental education		0.04	0.01	4.90	1131.7	0.000	0.000	0.03	0.06		
	Maternal age	0.02	0.00	4.17	1949.8	0.000	0.000	0.01	0.02	Maternal age		0.02	0.00	4.07	1963.1	0.000	0.000	0.01	0.02		
	(Intercept)	0.40	0.70	0.57	1355.3	0.566	0.566	-0.97	1.77	(Intercept)		0.77	0.68	1.14	1451.6	0.256	0.256	-0.56	2.11		
	SBP (z-score)	-0.08	0.02	-4.06	1208.3	0.000	0.000	-0.12	-0.04	DBP (z-score)		-0.08	0.02	-4.24	644.8	0.000	0.000	-0.12	-0.05		
	Female sex	-1.07	0.04	-29.26	2036.6	0.000	0.000	-1.14	-1.00	Female sex		-1.06	0.04	-28.80	2002.5	0.000	0.000	-1.13	-0.99		
	Age at MRI	-0.31	0.06	-5.08	1214.4	0.000	0.000	-0.43	-0.19	Age at MRI		-0.31	0.06	-5.13	1150.9	0.000	0.000	-0.43	-0.19		
	Age delta	0.18	0.06	3.18	955.1	0.002	0.016	0.07	0.29	Age delta		0.19	0.06	3.25	927.7	0.001	0.008	0.07	0.30		
Fully adjusted model (R ² = .40)	Global mean diffusivity (MD)										Fully adjusted model (R ² = .40)	Global mean diffusivity (MD)									
	Height	0.03	0.00	8.67	1258.5	0.000	0.000	0.02	0.03	Height		0.02	0.00	8.16	1409.2	0.000	0.000	0.02	0.03		
	(Intercept)	-1.18	0.68	-1.72	1138.0	0.085	0.097	-2.52	0.16	(Intercept)		-0.96	0.68	-1.41	1159.2	0.159	0.182	-2.28	0.37		
	SBP (z-score)	-0.06	0.02	-2.82	1245.4	0.005	0.013	-0.09	-0.02	DBP (z-score)		-0.05	0.02	-2.76	660.9	0.006	0.012	-0.09	-0.02		
	Female sex	-1.06	0.04	-30.49	1999.9	0.000	0.000	-1.13	-0.99	Female sex		-1.06	0.04	-30.22	1985.4	0.000	0.000	-1.12	-0.99		
	Age at MRI	-0.17	0.06	-2.94	840.2	0.003	0.008	-0.29	-0.06	Age at MRI		-0.18	0.06	-2.97	808.0	0.003	0.008	-0.29	-0.06		
	Age delta	0.08	0.06	1.49	638.5	0.137	0.362	-0.03	0.19	Age delta		0.09	0.06	1.55	623.0	0.121	0.323	-0.02	0.20		
	Height	0.02	0.00	6.86	1137.8	0.000	0.000	0.01	0.03	Height		0.02	0.00	6.55	1176.7	0.000	0.000	0.01	0.03		
Base model (R ² = .01)	Global fractional anisotropy (FA)										Base model (R ² = .01)	Global fractional anisotropy (FA)									
	Non-European ethnicity	-0.36	0.04	-8.81	1805.1	0.000	0.000	-0.44	-0.28	Non-European ethnicity		-0.36	0.04	-8.74	1801.3	0.000	0.000	-0.43	-0.28		
	BMI (z-score)	0.04	0.02	2.08	745.2	0.038	0.076	0.00	0.08	BMI (z-score)		0.03	0.02	1.58	800.7	0.115	0.153	-0.01	0.07		
	Parental education	0.05	0.01	6.03	919.0	0.000	0.000	0.04	0.07	Parental education		0.05	0.01	6.02	1045.0	0.000	0.000	0.04	0.07		
	Maternal age	0.02	0.00	5.10	1917.4	0.000	0.000	0.01	0.03	Maternal age		0.02	0.00	5.01	1948.3	0.000	0.000	0.01	0.03		
	(Intercept)	-1.63	0.81	-2.01	1305.8	0.045	0.060	-3.22	-0.04	(Intercept)		-1.62	0.79	-2.04	1468.2	0.041	0.055	-3.18	-0.06		
	SBP (z-score)	-0.01	0.02	-0.24	689.5	0.812	0.812	-0.05	0.04	DBP (z-score)		-0.01	0.02	-0.63	643.7	0.532	0.608	-0.06	0.03		
	Female sex	-0.01	0.04	-0.34	2298.0	0.731	0.731	-0.10	0.07	Female sex		-0.01	0.04	-0.29	2293.0	0.772	0.772	-0.09	0.07		
Fully adjusted model (R ² = .02)	Global mean diffusivity (MD)										Fully adjusted model (R ² = .02)	Global mean diffusivity (MD)									
	Age at MRI	0.01	0.07	0.17	1319.9	0.869	0.869	-0.13	0.15	Age at MRI		0.01	0.07	0.17	1376.6	0.863	0.863	-0.12	0.15		
	Age delta	0.10	0.07	1.55	978.9	0.121	0.194	-0.03	0.23	Age delta		0.10	0.07	1.55	1037.9	0.121	0.194	-0.03	0.23		
	Height	0.01	0.00	2.15	1528.1	0.031	0.050	0.00	0.01	Height		0.01	0.00	2.19	1519.5	0.028	0.045	0.00	0.01		
	(Intercept)	-2.36	0.83	-2.85	1433.5	0.004	0.016	-3.98	-0.74	(Intercept)		-2.40	0.82	-2.94	1527.0	0.003	0.012	-4.00	-0.80		
	SBP (z-score)	0.01	0.02	0.33	807.8	0.744	0.812	-0.04	0.06	DBP (z-score)		0.00	0.02	-0.08	648.9	0.941	0.941	-0.05	0.04		
	Female sex	-0.02	0.04	-0.36	2289.0	0.723	0.731	-0.10	0.07	Female sex		-0.01	0.04	-0.32	2282.9	0.752	0.772	-0.10	0.07		
	Age at MRI	0.06	0.07	0.83	1380.6	0.408	0.466	-0.08	0.20	Age at MRI		0.06	0.07	0.84	1401.7	0.403	0.461	-0.08	0.20		
Base model (R ² = .03)	Global mean diffusivity (MD)										Base model (R ² = .03)	Global mean diffusivity (MD)									
	Age delta	0.07	0.07	1.05	1033.5	0.296	0.297	-0.06	0.20	Age delta		0.07	0.07	1.03	1071.3	0.302	0.302	-0.06	0.20		
	Height	0.01	0.00	1.52	1447.4	0.128	0.171	0.00	0.01	Height		0.01	0.00	1.63	1387.9	0.104	0.139	0.00	0.01		
	Non-European ethnicity	-0.09	0.05	-1.86	1928.2	0.063	0.084	-0.19	0.01	Non-European ethnicity		-0.09	0.05	-1.85	1902.9	0.065	0.087	-0.19	0.01		
	BMI (z-score)	0.00	0.02	0.18	1899.0	0.860	0.860	-0.04	0.05	BMI (z-score)		0.01	0.02	0.29	1765.7	0.775	0.775	-0.04	0.05		
	Parental education	0.03	0.01	2.34	494.8	0.020	0.027	0.00	0.05	Parental education		0.03	0.01	2.32	501.0	0.021	0.028	0.00	0.05		
	Maternal age	0.01	0.00	2.26	2233.7	0.024	0.032	0.00	0.02	Maternal age		0.01	0.00	2.25	2230.2	0.025	0.033	0.00	0.02		
	Fully adjusted model (R ² = .03)	Global mean diffusivity (MD)										Fully adjusted model (R ² = .03)	Global mean diffusivity (MD)								
(Intercept)		2.08	0.80	2.60	1407.9	0.009	0.018	0.51	3.65	(Intercept)	2.20		0.79	2.80	1452.0	0.005	0.013	0.66	3.74		
SBP (z-score)		-0.02	0.02	-1.07	917.7	0.286	0.458	-0.07	0.02	DBP (z-score)	-0.02		0.02	-1.00	385.4	0.316	0.475	-0.07	0.02		
Female sex		-0.24	0.04	-5.85	2298.7	0.000	0.000	-0.32	-0.16	Female sex	-0.24		0.04	-5.78	2291.8	0.000	0.000	-0.32	-0.16		
Age at MRI		-0.09	0.07	-1.22	1049.6	0.221	0.354	-0.22	0.05	Age at MRI	-0.09		0.07	-1.24	1000.9	0.215	0.344	-0.22	0.05		
Age delta		-0.11	0.07	-1.71	776.6	0.088	0.194	-0.24	0.02	Age delta	-0.11		0.07	-1.68	743.7	0.094	0.194	-0.24	0.02		
Height		0.00	0.00	-0.59	1162.3	0.553	0.632	-0.01	0.01	Height	0.00		0.00	-0.85	1243.2	0.397	0.454	-0.01	0.00		
(Intercept)		2.02	0.82	2.47	1555.0	0.014	0.022	0.42	3.63	(Intercept)	2.08		0.81	2.56	1594.1	0.010	0.020	0.49	3.66		
Fully adjusted model (R ² = .03)	Global mean diffusivity (MD)										Fully adjusted model (R ² = .03)	Global mean diffusivity (MD)									
	SBP (z-score)	-0.02	0.02	-0.62	834.2	0.535	0.713	-0.06	0.03	DBP (z-score)		-0.02	0.02	-0.92	392.0	0.356	0.475	-0.07	0.02		
	Female sex	-0.24	0.04	-5.92	2294.2	0.000	0.000	-0.33	-0.16	Female sex		-0.24	0.04	-5.84	2287.3	0.000	0.000	-0.32	-0.16		
	Age at MRI	-0.09	0.07	-1.26	1023.1	0.209	0.354	-0.23	0.05	Age at MRI		-0.09	0.07	-1.26	998.9	0.207	0.344	-0.23	0.05		
	Age delta	-0.11	0.07	-1.64	753.2	0.101	0.194	-0.24	0.02	Age delta		-0.11	0.07	-1.63	739.0	0.103	0.194	-0.24	0.02		
	Height	0.00	0.00	-0.27	1164.5	0.785	0.785	-0.01	0.01	Height		0.00	0.00	-0.37	1260.4	0.713	0.713	-0.01	0.01		
	Non-European ethnicity	0.02	0.05	0.49	2064.8	0.625	0.625	-0.07	0.12	Non-European ethnicity		0.03	0.05	0.52	2027.7	0.605	0.605	-0.07	0.12		
	BMI (z-score)	-0.04	0.02	-1.55	1671.9	0.122	0.163	-0.08	0.01	BMI (z-score)		-0.04	0.02	-1.73	1594.9	0.085	0.113	-0.08	0.01		
Fully adjusted model (R ² = .03)	Global mean diffusivity (MD)										Fully adjusted model (R ² = .03)	Global mean diffusivity (MD)									
	Parental education	0.00	0.01	0.05	511.2	0.960	0.960	-0.02	0.02	Parental education		0.00	0.01	0.03	532.7	0.978	0.978	-0.02	0.02		
	Maternal age	0.00	0.00																		

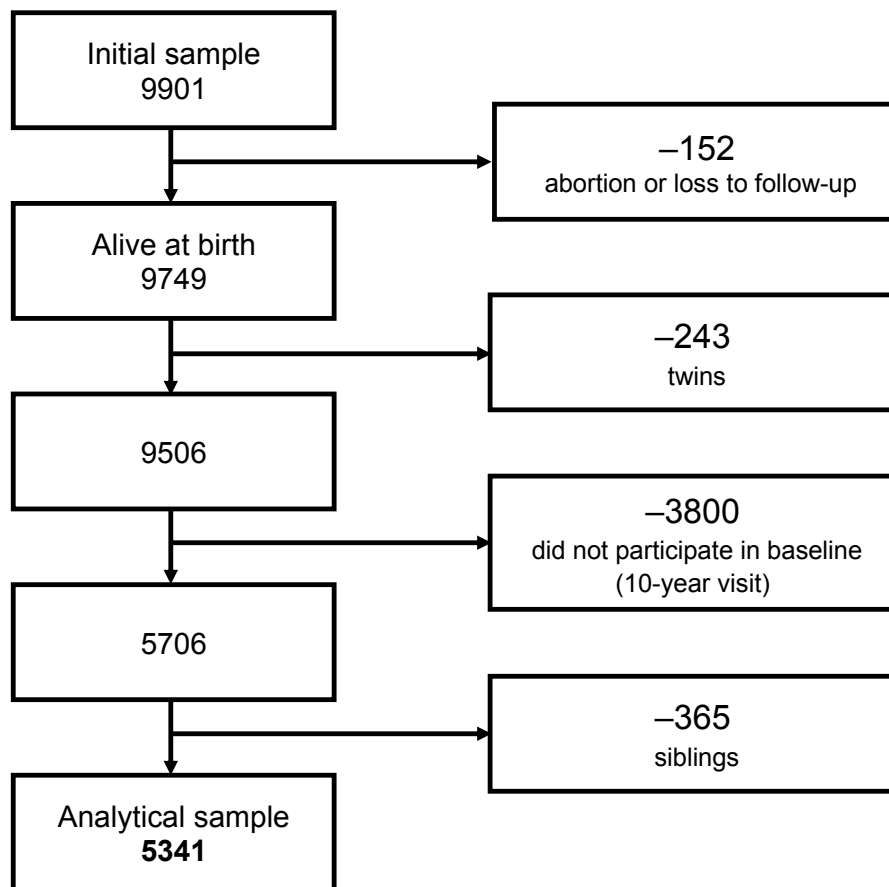
Table S14 - Sensitivity (full sample)

CAROTID INTIMA-MEDIA THICKNESS (IMT)										CAROTID DISTENSIBILITY											
		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI			Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI
Base model (R ² = .11)	Total brain volume (TBV)										Base model (R ² = .11)	Total brain volume (TBV)									
	(Intercept)	-1.60	0.45	-3.53	161.9	0.001	0.004	-2.50	-0.70	(Intercept)		-1.66	0.46	-3.64	159.5	0.000	0.000	-2.56	-0.76		
	IMT (z-score)	0.03	0.02	2.01	58.5	0.050	0.112	0.00	0.06	Distensibility (z-score)		-0.01	0.01	-0.53	87.8	0.596	0.671	-0.04	0.02		
	Female sex	-0.61	0.02	-26.26	284.2	0.000	0.000	-0.66	-0.56	Female sex		-0.61	0.02	-26.08	248.6	0.000	0.000	-0.66	-0.57		
	Age at MRI	-0.06	0.04	-1.59	241.2	0.113	0.224	-0.13	0.01	Age at MRI		-0.06	0.04	-1.56	240.9	0.119	0.234	-0.13	0.01		
	Age delta	0.05	0.03	1.53	179.3	0.128	0.588	-0.01	0.11	Age delta		0.05	0.03	1.53	183.9	0.128	0.588	-0.01	0.11		
Fully adjusted model (R ² = .12)	Height	0.02	0.00	7.98	71.8	0.000	0.000	0.01	0.02	Height	0.02	0.00	7.87	64.5	0.000	0.000	0.01	0.02			
	(Intercept)	-1.97	0.50	-3.98	106.2	0.000	0.000	-2.96	-0.99	(Intercept)	-2.04	0.50	-4.09	104.2	0.000	0.000	-3.02	-1.05			
	IMT (z-score)	0.03	0.02	2.08	57.6	0.042	0.112	0.00	0.06	Distensibility (z-score)	-0.01	0.01	-0.43	85.4	0.671	0.671	-0.03	0.02			
	Female sex	-0.61	0.02	-26.36	269.3	0.000	0.000	-0.66	-0.56	Female sex	-0.61	0.02	-26.14	232.2	0.000	0.000	-0.66	-0.57			
	Age at MRI	-0.02	0.04	-0.47	195.1	0.641	0.641	-0.09	0.06	Age at MRI	-0.02	0.04	-0.44	194.4	0.657	0.657	-0.09	0.06			
	Age delta	0.02	0.03	0.54	168.0	0.589	0.838	-0.05	0.08	Age delta	0.02	0.03	0.54	170.6	0.591	0.849	-0.05	0.08			
	Height	0.02	0.00	7.23	82.9	0.000	0.000	0.01	0.02	Height	0.02	0.00	7.17	73.0	0.000	0.000	0.01	0.02			
	Non-European ethnicity	-0.17	0.03	-7.05	358.6	0.000	0.000	-0.22	-0.13	Non-European ethnicity	-0.17	0.02	-6.99	366.1	0.000	0.000	-0.22	-0.12			
	BMI (z-score)	0.03	0.01	2.49	107.8	0.014	0.056	0.01	0.06	BMI (z-score)	0.03	0.01	2.48	104.1	0.015	0.060	0.01	0.06			
	Parental education	0.02	0.01	3.20	83.4	0.002	0.004	0.01	0.03	Parental education	0.02	0.01	3.25	84.8	0.002	0.004	0.01	0.03			
Base model (R ² = .11)	Grey matter volume (GMV)										Base model (R ² = .11)	Grey matter volume (GMV)									
	(Intercept)	-0.74	0.45	-1.64	178.7	0.102	0.102	-1.62	0.15	(Intercept)		-0.80	0.45	-1.78	182.6	0.077	0.077	-1.68	0.09		
	IMT (z-score)	0.03	0.02	1.96	49.7	0.056	0.112	0.00	0.06	Distensibility (z-score)		-0.01	0.01	-0.59	130.4	0.554	0.671	-0.03	0.02		
	Female sex	-0.61	0.03	-22.84	94.9	0.000	0.000	-0.67	-0.56	Female sex		-0.62	0.03	-22.53	86.6	0.000	0.000	-0.67	-0.56		
	Age at MRI	-0.11	0.04	-2.59	93.2	0.011	0.088	-0.19	-0.03	Age at MRI		-0.10	0.04	-2.57	93.6	0.012	0.096	-0.19	-0.02		
	Age delta	0.06	0.04	1.47	61.8	0.147	0.588	-0.02	0.14	Age delta		0.06	0.04	1.47	62.5	0.147	0.588	-0.02	0.14		
Fully adjusted model (R ² = .13)	Height	0.02	0.00	6.89	59.4	0.000	0.000	0.01	0.02	Height	0.02	0.00	6.84	54.9	0.000	0.000	0.01	0.02			
	(Intercept)	-1.23	0.47	-2.61	143.4	0.010	0.026	-2.17	-0.30	(Intercept)	-1.30	0.47	-2.76	147.0	0.007	0.019	-2.22	-0.37			
	IMT (z-score)	0.03	0.02	2.09	50.1	0.042	0.112	0.00	0.07	Distensibility (z-score)	-0.01	0.01	-0.62	138.1	0.535	0.671	-0.03	0.02			
	Female sex	-0.62	0.03	-23.04	93.8	0.000	0.000	-0.67	-0.56	Female sex	-0.62	0.03	-22.73	85.6	0.000	0.000	-0.67	-0.56			
	Age at MRI	-0.06	0.04	-1.49	96.6	0.140	0.224	-0.14	0.02	Age at MRI	-0.06	0.04	-1.47	96.9	0.146	0.234	-0.14	0.02			
	Age delta	0.02	0.04	0.56	62.8	0.580	0.838	-0.06	0.10	Age delta	0.02	0.04	0.56	63.5	0.580	0.849	-0.06	0.10			
	Height	0.01	0.00	6.07	59.9	0.000	0.000	0.01	0.02	Height	0.02	0.00	6.05	55.2	0.000	0.000	0.01	0.02			
	Non-European ethnicity	-0.19	0.03	-7.32	196.6	0.000	0.000	-0.24	-0.14	Non-European ethnicity	-0.19	0.03	-7.19	184.0	0.000	0.000	-0.24	-0.14			
	BMI (z-score)	0.02	0.01	1.79	180.8	0.076	0.152	0.00	0.05	BMI (z-score)	0.02	0.01	1.80	202.5	0.073	0.146	0.00	0.05			
	Parental education	0.02	0.01	3.24	61.8	0.002	0.004	0.01	0.03	Parental education	0.02	0.01	3.29	62.1	0.002	0.004	0.01	0.03			
Base model (R ² < .01)	Global fractional anisotropy (FA)										Base model (R ² < .01)	Global fractional anisotropy (FA)									
	(Intercept)	-1.03	0.47	-2.19	190.2	0.030	0.037	-1.96	-0.10	(Intercept)		-1.05	0.47	-2.23	191.4	0.027	0.036	-1.98	-0.12		
	IMT (z-score)	0.00	0.01	-0.22	126.9	0.825	0.854	-0.03	0.02	Distensibility (z-score)		0.01	0.02	0.94	72.9	0.351	0.671	-0.02	0.05		
	Female sex	-0.03	0.03	-1.15	132.9	0.253	0.253	-0.08	0.02	Female sex		-0.03	0.03	-1.21	137.8	0.230	0.230	-0.09	0.02		
	Age at MRI	0.04	0.04	0.88	144.1	0.380	0.434	-0.04	0.11	Age at MRI		0.04	0.04	0.88	147.7	0.380	0.434	-0.04	0.11		
	Age delta	0.02	0.04	0.49	110.7	0.626	0.838	-0.06	0.09	Age delta		0.02	0.04	0.47	114.4	0.636	0.849	-0.06	0.09		
Fully adjusted model (R ² < .01)	Height	0.00	0.00	1.63	128.0	0.105	0.168	0.00	0.01	Height	0.00	0.00	1.66	103.4	0.101	0.162	0.00	0.01			
	(Intercept)	-1.27	0.51	-2.51	134.9	0.013	0.026	-2.28	-0.27	(Intercept)	-1.29	0.51	-2.53	135.6	0.012	0.024	-2.29	-0.28			
	IMT (z-score)	0.00	0.01	-0.18	124.5	0.854	0.854	-0.03	0.02	Distensibility (z-score)	0.01	0.02	0.90	79.0	0.373	0.671	-0.02	0.04			
	Female sex	-0.03	0.03	-1.16	134.2	0.250	0.253	-0.08	0.02	Female sex	-0.03	0.03	-1.21	139.7	0.228	0.230	-0.09	0.02			
	Age at MRI	0.05	0.04	1.20	142.9	0.231	0.308	-0.03	0.13	Age at MRI	0.05	0.04	1.20	146.3	0.231	0.308	-0.03	0.13			
	Age delta	0.01	0.04	0.21	114.0	0.838	0.838	-0.07	0.08	Age delta	0.01	0.04	0.19	117.9	0.849	0.849	-0.07	0.08			
	Height	0.00	0.00	1.47	125.7	0.144	0.192	0.00	0.01	Height	0.00	0.00	1.48	103.9	0.141	0.188	0.00	0.01			
	Non-European ethnicity	-0.03	0.03	-1.12	116.0	0.264	0.352	-0.09	0.03	Non-European ethnicity	-0.03	0.03	-1.14	115.8	0.259	0.345	-0.09	0.03			
	BMI (z-score)	0.00	0.02	-0.07	64.9	0.946	0.946	-0.03	0.03	BMI (z-score)	0.00	0.02	0.03	69.9	0.977	0.977	-0.03	0.03			
	Parental education	0.01	0.01	1.24	300.9	0.215	0.287	0.00	0.02	Parental education	0.01	0.01	1.24	300.9	0.217	0.289	0.00	0.02			
Base model (R ² = .01)	Global mean diffusivity (MD)										Base model (R ² = .01)	Global mean diffusivity (MD)									
	(Intercept)	-1.03	0.47	-2.19	190.2	0.030	0.037	-1.96	-0.10	(Intercept)		1.30	0.55	2.36	75.3	0.021	0.034	0.20	2.40		
	IMT (z-score)	0.00	0.01	-0.22	126.9	0.825	0.854	-0.03	0.02	Distensibility (z-score)		-0.01	0.01	-1.04	203.6	0.301	0.671	-0.04	0.01		
	Female sex	-0.03	0.03	-1.15	132.9	0.253	0.253	-0.08	0.02	Female sex		-0.11	0.03	-4.21	159.6	0.000	0.000	-0.16	-0.06		
	Age at MRI	0.04	0.04	0.88	144.1	0.380	0.434	-0.04	0.11	Age at MRI		-0.08	0.05	-1.75	66.3	0.084	0.234	-0.18	0.01		
	Age delta	0.02	0.04	0.49	110.7	0.626	0.838	-0.06	0.09	Age delta		-0.01	0.04	-0.23	72.6	0.823	0.849	-0.09	0.07		
Fully adjusted model (R ² = .01)	Height	0.00	0.00	1.63	128.0	0.105	0.168	0.00	0.01	Height	0.00	0.00	-0.20	84.4	0.843	0.963	-0.01	0.00			
	(Intercept)	-1.27	0.51	-2.51	134.9	0.013	0.026	-2.28	-0.27	(Intercept)	1.23	0.57	2.17	76.5	0.033	0.038	0.10	2.36			
	IMT (z-score)	0.00	0.01	-0.18	124.5	0.854	0.854	-0.03	0.02	Distensibility (z-score)	-0.02	0.01	-1.17	208.3	0.242	0.671	-0.04	0.01			
	Female sex	-0.03	0.03	-1.16	134.2	0.250	0.253	-0.08	0.02	Female sex	-0.11	0.03	-4.22	157.1	0.000	0.000	-0.16	-0.06			
	Age at MRI	0.05	0.04	1.20	142.9	0.231	0.308	-0.03	0.13	Age at MRI	-0.08	0.05	-1.67	62.4	0.100	0.234	-0.18	0.02			
	Age delta	0.01	0.04	0.21	114.0	0.838	0.838	-0.07	0.08	Age delta	-0.01	0.04	-0.26	67.7	0.799	0.849	-0.09	0.07			
	Height	0.00	0.00	1.47	125.7	0.144	0.192	0.00	0.01	Height	0.00	0.00	-0.04	79.1	0.968	0.968	-0.01	0.01			
	Non-European ethnicity	-0.03	0.03	-1.12	116.0	0.264	0.352	-0.09	0.03	Non-European ethnicity	0.00	0.03	-0.05	116.0	0.959	0.959	-0.06	0.06			
	BMI (z-score)	0.00	0.02	-0.07	64.9	0.946	0.946	-0.03	0.03	BMI (z-score)	-0.01	0.02	-0.96	75.1	0.342	0.456	-0.04	0.02			
	Parental education	0.01	0.01	1.24	300.9	0.215	0.287	0.00	0.02	Parental education	0.00	0.01	0.27	97.2	0.789	0.789	-0.01	0.01			
	Maternal age	0.00	0.00	1.13	75.2	0.263	0.351	0.00	0.01	Maternal age	0.00	0.00	-0.09	73.0	0.926	0.926	-0.01	0.01			

Table S14 - Sensitivity (full sample) (cont'd)

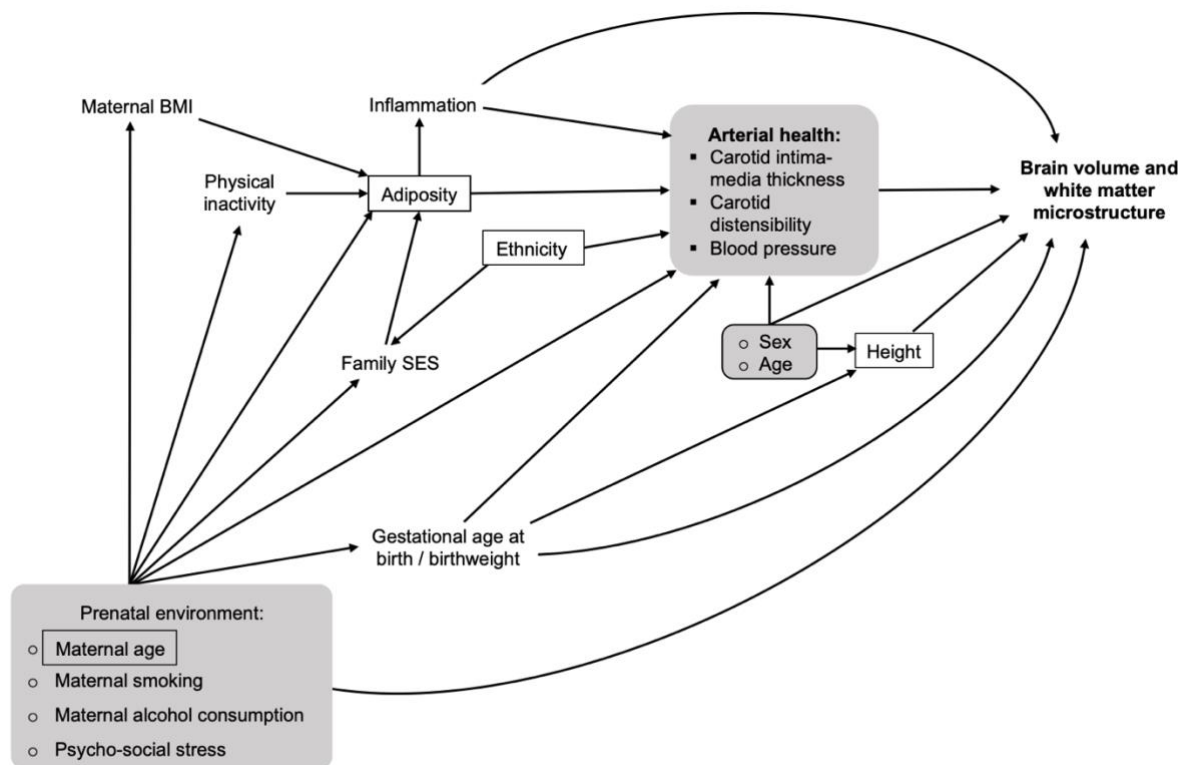
SYSTOLIC BLOOD PRESSURE (SBP)										DIASTOLIC BLOOD PRESSURE (DBP)										
	Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI		Predictor	Beta	SE	Statistic	Df	P _{unadjusted}	P _{FDR}	LCI	UCI	
Base model (R ² = .11)	Total brain volume (TBV)										Total brain volume (TBV)									
	(Intercept)	-1.82	0.46	-3.96	156.6	0.000	0.000	-2.73	-0.91	(Intercept)	-1.74	0.45	-3.88	174.3	0.000	0.000	-2.63	-0.85		
	SBP (z-score)	-0.03	0.01	-2.62	281.8	0.009	0.018	-0.05	-0.01	DBP (z-score)	-0.05	0.01	-3.60	90.4	0.001	0.004	-0.08	-0.02		
	Female sex	-0.61	0.02	-26.37	286.0	0.000	0.000	-0.66	-0.57	Female sex	-0.61	0.02	-26.10	266.9	0.000	0.000	-0.65	-0.56		
	Age at MRI	-0.05	0.04	-1.49	233.1	0.139	0.256	-0.12	0.02	Age at MRI	-0.05	0.04	-1.50	249.9	0.136	0.243	-0.12	0.02		
	Age delta	0.05	0.03	1.42	181.7	0.158	0.724	-0.02	0.11	Age delta	0.05	0.03	1.41	171.1	0.161	0.712	-0.02	0.11		
	Height	0.02	0.00	8.44	71.4	0.000	0.000	0.01	0.02	Height	0.02	0.00	8.14	65.7	0.000	0.000	0.01	0.02		
Fully adjusted model (R ² = .12)	(Intercept)	-2.15	0.50	-4.31	104.4	0.000	0.000	-3.14	-1.16	(Intercept)	-2.07	0.49	-4.19	107.1	0.000	0.000	-3.05	-1.09		
	SBP (z-score)	-0.03	0.01	-2.64	289.2	0.009	0.018	-0.06	-0.01	DBP (z-score)	-0.04	0.01	-3.24	91.1	0.002	0.005	-0.07	-0.02		
	Female sex	-0.61	0.02	-26.31	256.0	0.000	0.000	-0.66	-0.57	Female sex	-0.61	0.02	-26.08	240.5	0.000	0.000	-0.66	-0.56		
	Age at MRI	-0.02	0.04	-0.40	192.8	0.689	0.689	-0.09	0.06	Age at MRI	-0.02	0.04	-0.42	198.8	0.677	0.677	-0.09	0.06		
	Age delta	0.02	0.03	0.45	168.3	0.652	0.830	-0.05	0.08	Age delta	0.02	0.03	0.47	162.4	0.640	0.837	-0.05	0.08		
	Height	0.02	0.00	7.61	79.3	0.000	0.000	0.01	0.02	Height	0.02	0.00	7.35	74.3	0.000	0.000	0.01	0.02		
	Non-European ethnicity	-0.17	0.03	-6.97	355.7	0.000	0.000	-0.22	-0.12	Non-European ethnicity	-0.17	0.02	-6.94	381.5	0.000	0.000	-0.22	-0.12		
	BMI (z-score)	0.04	0.01	3.07	105.4	0.003	0.012	0.02	0.07	BMI (z-score)	0.04	0.01	2.86	108.7	0.005	0.020	0.01	0.06		
	Parental education	0.02	0.01	3.16	83.8	0.002	0.004	0.01	0.03	Parental education	0.02	0.01	3.10	80.4	0.003	0.006	0.01	0.03		
	Maternal age	0.01	0.00	1.78	86.6	0.078	0.156	0.00	0.01		Maternal age	0.01	0.00	1.72	83.2	0.090	0.180	0.00	0.01	
	Grey matter volume (GMV)										Grey matter volume (GMV)									
Base model (R ² = .11)	(Intercept)	-1.00	0.45	-2.24	193.2	0.026	0.038	-1.89	-0.12	(Intercept)	-0.88	0.44	-2.01	214.0	0.045	0.045	-1.75	-0.02		
	SBP (z-score)	-0.04	0.01	-3.29	176.5	0.001	0.008	-0.07	-0.02	DBP (z-score)	-0.05	0.02	-3.62	68.0	0.001	0.004	-0.08	-0.02		
	Female sex	-0.61	0.03	-22.49	87.1	0.000	0.000	-0.67	-0.56	Female sex	-0.61	0.03	-22.25	84.1	0.000	0.000	-0.67	-0.56		
	Age at MRI	-0.10	0.04	-2.47	91.3	0.015	0.120	-0.18	-0.02	Age at MRI	-0.10	0.04	-2.51	93.7	0.014	0.112	-0.18	-0.02		
	Age delta	0.05	0.04	1.35	62.6	0.181	0.724	-0.03	0.13	Age delta	0.06	0.04	1.36	61.2	0.178	0.712	-0.03	0.14		
	Height	0.02	0.00	7.49	59.6	0.000	0.000	0.01	0.02	Height	0.02	0.00	7.11	55.8	0.000	0.000	0.01	0.02		
Fully adjusted model (R ² = .13)	(Intercept)	-1.43	0.47	-3.06	155.7	0.003	0.008	-2.36	-0.51	(Intercept)	-1.33	0.46	-2.87	158.5	0.005	0.013	-2.25	-0.41		
	SBP (z-score)	-0.04	0.01	-2.93	151.3	0.004	0.016	-0.06	-0.01	DBP (z-score)	-0.05	0.02	-3.09	64.3	0.003	0.006	-0.08	-0.02		
	Female sex	-0.62	0.03	-22.58	84.6	0.000	0.000	-0.67	-0.56	Female sex	-0.61	0.03	-22.38	82.0	0.000	0.000	-0.67	-0.56		
	Age at MRI	-0.06	0.04	-1.42	94.3	0.160	0.256	-0.14	0.02	Age at MRI	-0.06	0.04	-1.44	96.4	0.152	0.243	-0.14	0.02		
	Age delta	0.02	0.04	0.47	63.2	0.639	0.830	-0.06	0.10	Age delta	0.02	0.04	0.50	62.2	0.622	0.837	-0.06	0.10		
	Height	0.02	0.00	6.54	59.3	0.000	0.000	0.01	0.02	Height	0.02	0.00	6.23	56.1	0.000	0.000	0.01	0.02		
	Non-European ethnicity	-0.19	0.03	-7.20	186.8	0.000	0.000	-0.24	-0.14	Non-European ethnicity	-0.19	0.03	-7.18	196.6	0.000	0.000	-0.24	-0.14		
	BMI (z-score)	0.03	0.01	2.53	149.9	0.012	0.024	0.01	0.06	BMI (z-score)	0.03	0.01	2.18	169.4	0.031	0.062	0.00	0.05		
	Parental education	0.02	0.01	3.19	61.9	0.002	0.004	0.01	0.03	Parental education	0.02	0.01	3.15	60.8	0.003	0.006	0.01	0.03		
	Maternal age	0.01	0.00	2.37	144.5	0.019	0.076	0.00	0.01		Maternal age	0.01	0.00	2.30	137.8	0.023	0.092	0.00	0.01	
	Global fractional anisotropy (FA)										Global fractional anisotropy (FA)									
Base model (R ² < .01)	(Intercept)	-1.03	0.48	-2.15	183.6	0.033	0.038	-1.97	-0.09	(Intercept)	-1.03	0.47	-2.18	190.3	0.030	0.040	-1.96	-0.10		
	SBP (z-score)	0.00	0.02	-0.02	86.6	0.984	0.984	-0.03	0.03	DBP (z-score)	0.00	0.02	-0.13	85.8	0.898	0.940	-0.03	0.03		
	Female sex	-0.03	0.03	-1.15	145.2	0.253	0.253	-0.08	0.02	Female sex	-0.03	0.03	-1.14	143.8	0.256	0.256	-0.08	0.02		
	Age at MRI	0.04	0.04	0.88	148.0	0.380	0.434	-0.04	0.11	Age at MRI	0.04	0.04	0.88	147.4	0.378	0.432	-0.04	0.11		
	Age delta	0.02	0.04	0.49	113.5	0.624	0.830	-0.06	0.09	Age delta	0.02	0.04	0.49	112.6	0.628	0.837	-0.06	0.09		
	Height	0.00	0.00	1.55	108.6	0.124	0.198	0.00	0.01	Height	0.00	0.00	1.60	117.8	0.112	0.179	0.00	0.01		
Fully adjusted model (R ² < .01)	(Intercept)	-1.26	0.51	-2.46	133.0	0.015	0.030	-2.27	-0.25	(Intercept)	-1.27	0.51	-2.50	135.6	0.014	0.028	-2.27	-0.26		
	SBP (z-score)	0.00	0.02	0.24	102.5	0.809	0.925	-0.03	0.03	DBP (z-score)	0.00	0.02	0.08	80.6	0.940	0.940	-0.03	0.03		
	Female sex	-0.03	0.03	-1.17	147.7	0.243	0.253	-0.08	0.02	Female sex	-0.03	0.03	-1.16	145.5	0.247	0.256	-0.08	0.02		
	Age at MRI	0.05	0.04	1.20	147.2	0.232	0.309	-0.03	0.13	Age at MRI	0.05	0.04	1.21	145.8	0.230	0.307	-0.03	0.13		
	Age delta	0.01	0.04	0.22	117.1	0.830	0.830	-0.07	0.08	Age delta	0.01	0.04	0.21	116.0	0.837	0.837	-0.07	0.08		
	Height	0.00	0.00	1.37	107.8	0.172	0.229	0.00	0.01	Height	0.00	0.00	1.44	116.8	0.153	0.204	0.00	0.01		
	Non-European ethnicity	-0.03	0.03	-1.13	115.3	0.262	0.349	-0.09	0.03	Non-European ethnicity	-0.03	0.03	-1.12	113.1	0.264	0.352	-0.09	0.03		
	BMI (z-score)	0.00	0.02	-0.13	72.6	0.896	0.896	-0.03	0.03	BMI (z-score)	0.00	0.02	-0.08	63.9	0.938	0.938	-0.03	0.03		
	Parental education	0.01	0.01	1.25	314.7	0.211	0.281	0.00	0.02	Parental education	0.01	0.01	1.24	286.9	0.217	0.289	0.00	0.02		
	Maternal age	0.00	0.00	1.13	75.2	0.262	0.349	0.00	0.01		Maternal age	0.00	0.00	1.13	75.9	0.261	0.348	0.00	0.01	
	Global mean diffusivity (MD)										Global mean diffusivity (MD)									
Base model (R ² = .01)	(Intercept)	1.20	0.54	2.22	83.4	0.029	0.038	0.13	2.28	(Intercept)	1.25	0.55	2.29	77.8	0.025	0.040	0.17	2.34		
	SBP (z-score)	-0.02	0.02	-0.97	75.7	0.336	0.538	-0.05	0.02	DBP (z-score)	-0.02	0.02	-1.01	75.7	0.317	0.500	-0.05	0.02		
	Female sex	-0.11	0.03	-4.20	152.6	0.000	0.000	-0.16	-0.06	Female sex	-0.11	0.03	-4.17	148.4	0.000	0.000	-0.16	-0.06		
	Age at MRI	-0.08	0.05	-1.73	67.2	0.088	0.256	-0.17	0.01	Age at MRI	-0.08	0.05	-1.75	67.9	0.085	0.243	-0.17	0.01		
	Age delta	-0.01	0.04	-0.28	72.6	0.781	0.830	-0.09	0.07	Age delta	-0.01	0.04	-0.27	74.4	0.789	0.837	-0.09	0.07		
	Height	0.00	0.00	0.08	91.9	0.936	0.936	0.00	0.01	Height	0.00	0.00	-0.07	83.3	0.948	0.949	-0.01	0.00		
Fully adjusted model (R ² = .01)	(Intercept)	1.17	0.56	2.09	81.3	0.040	0.040	0.06	2.28	(Intercept)	1.20	0.56	2.13	77.5	0.037	0.042	0.08	2.32		
	SBP (z-score)	-0.01	0.02	-0.76	84.9	0.450	0.600	-0.04	0.02	DBP (z-score)	-0.01	0.02	-0.89	69.7	0.375	0.500	-0.04	0.02		
	Female sex	-0.11	0.03	-4.23	152.8	0.000	0.000	-0.16	-0.06	Female sex	-0.11	0.03	-4.19	146.9	0.000	0.000	-0.16	-0.06		
	Age at MRI	-0.08	0.05	-1.66	62.9	0.102	0.256	-0.17	0.02	Age at MRI	-0.08	0.05	-1.67	63.2	0.100	0.243	-0.17	0.02		
	Age delta	-0.01	0.04	-0.29	67.7	0.771	0.830	-0.10	0.07	Age delta	-0.01	0.04	-0.29	68.8	0.775	0.837	-0.09	0.07		
	Height	0.00	0.00	0.15	80.5	0.884	0.936	0.00	0.01	Height	0.00	0.00	0.06	77.4	0.949	0.949	0.00	0.01		
	Non-European ethnicity	0.00	0.03	-0.06	113.8	0.954	0.954	-0.06	0.06	Non-European ethnicity	0.00	0.03	-0.04	113.0	0.967	0.967	-0.06	0.06		
	BMI (z-score)	-0.01	0.02	-0.65	92.5	0.517	0.689	-0.04	0.02	BMI (z-score)	-0.01	0.02	-0.76	72.7	0.453	0.604	-0.04	0.02		
	Parental education	0.00	0.01	0.23	95.1	0.816	0.816	-0.01	0.01	Parental education	0.00	0.01	0.23	93.3	0.823	0.823	-0.01	0.01		
	Maternal age	0.00	0.00	-0.10	72.7	0.917	0.917	-0.01	0.01		Maternal age	0.00	0.00	-0.12	73.0	0.906	0.906	-0.01	0.01	

Figure S1 | Flowchart



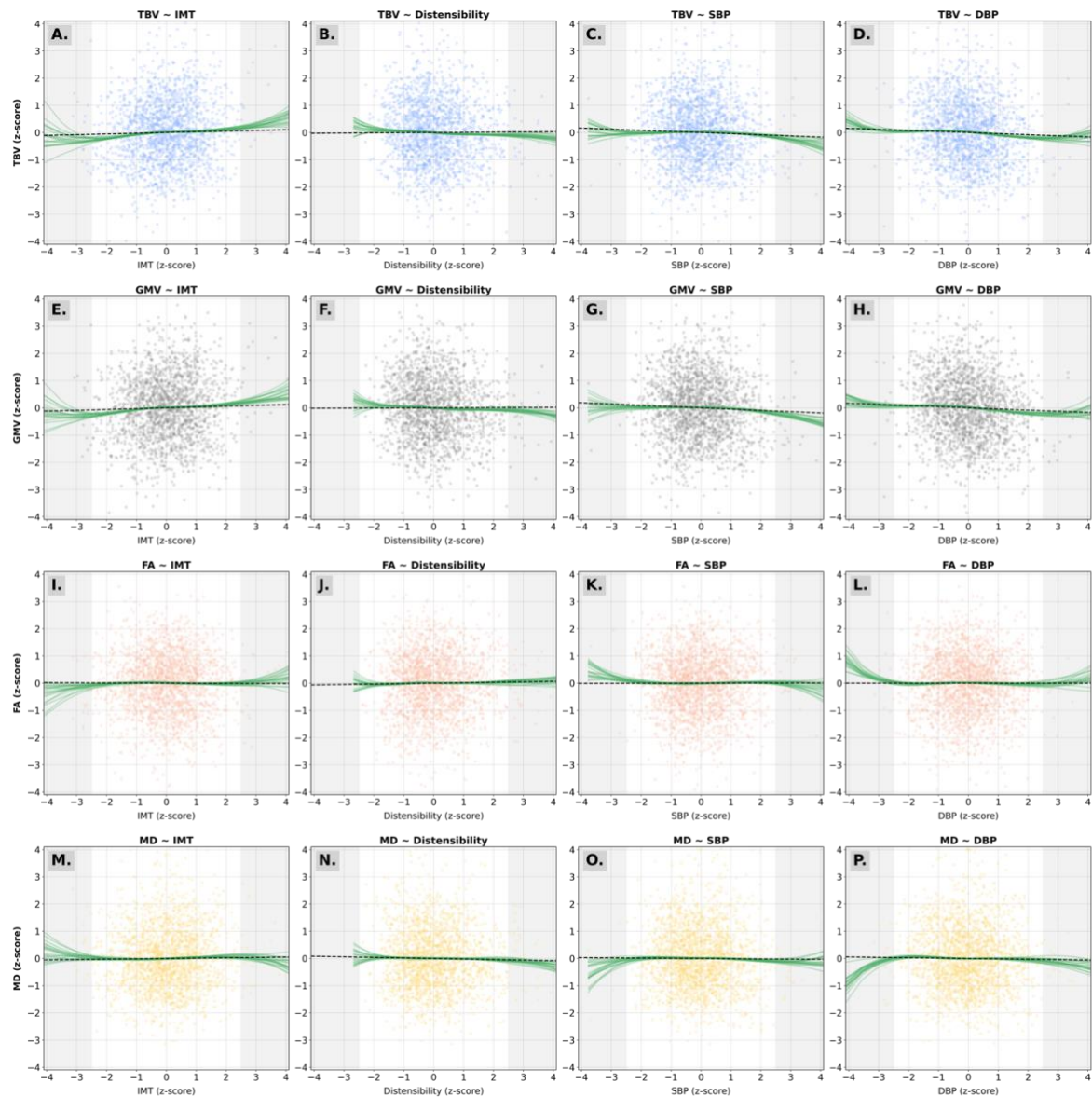
Flowchart detailing exclusion criteria. Prior to analysis, all twins were excluded, and only one non-twin sibling was retained in the sample (based on data completeness, or, if that was equal between siblings, randomly).

Figure S2 | DAG



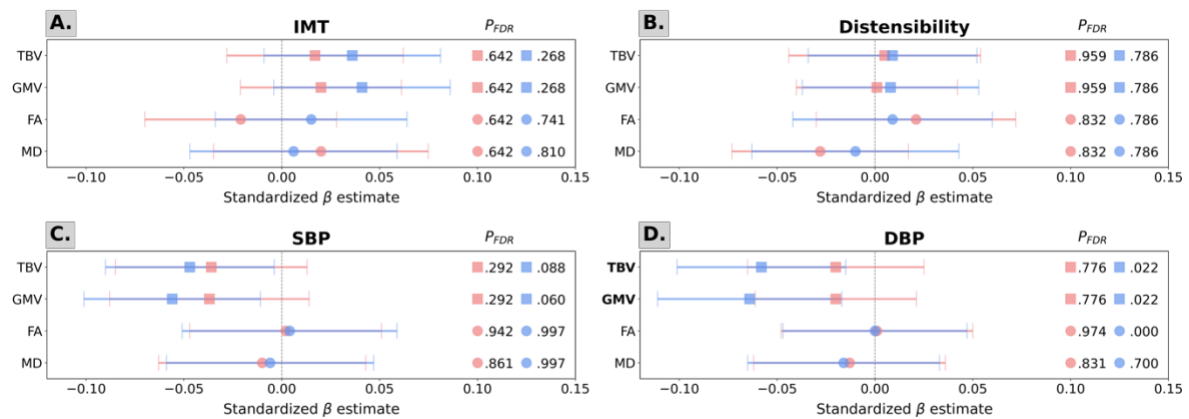
Directed acyclic graph (DAG) representing the assumed causal structure underlying the observed data. Variables which were included in the models as covariates are indicated by a black square box.

Figure S3 | Non-linear associations



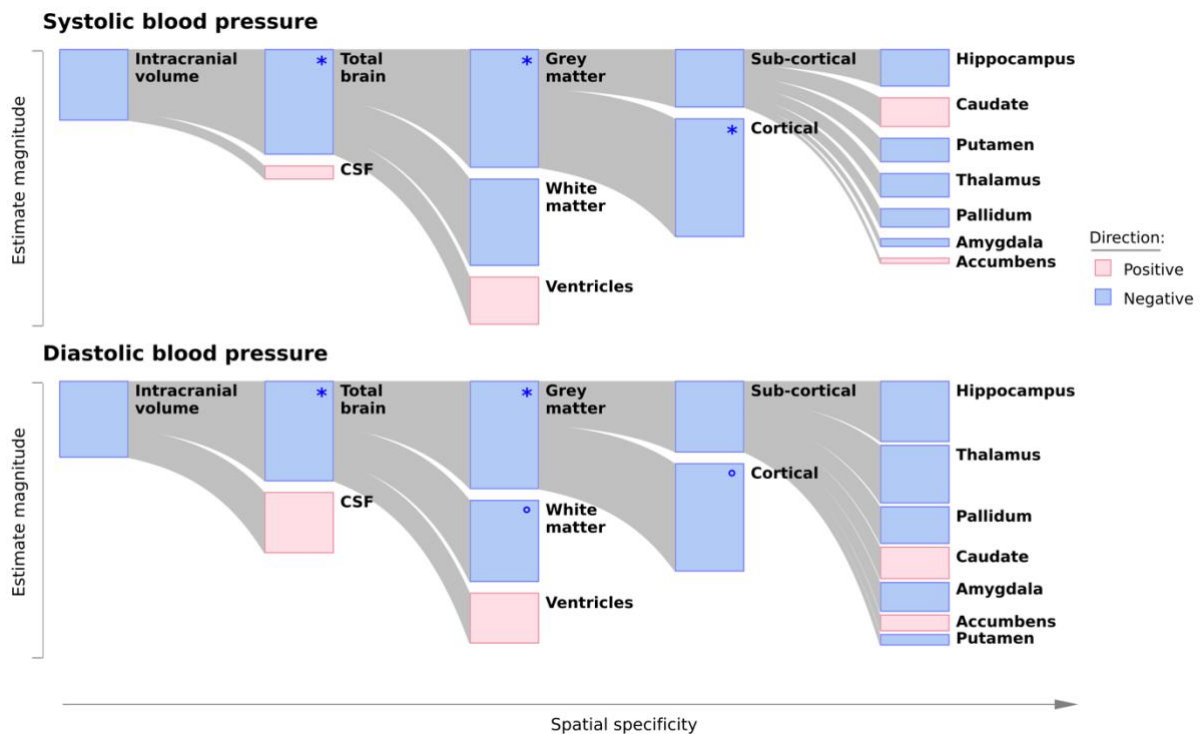
For each exposure - outcome pair (A-D, total brain volume (TBV); E-H, grey matter volume (GMV); I-L, global fractional anisotropy (FA); and M-P, mean diffusivity (MD) the linear and non-linear fits are presented. Linear associations (black dashed line) were pooled across datasets, while non-linear associations (green continuous lines) were fit in each imputed dataset individually using natural splines with 4 knots. The gray shadows also mark the -2.5 and +2.5 SD cutoffs of exposure distribution.

Figure S4 | Sex differences



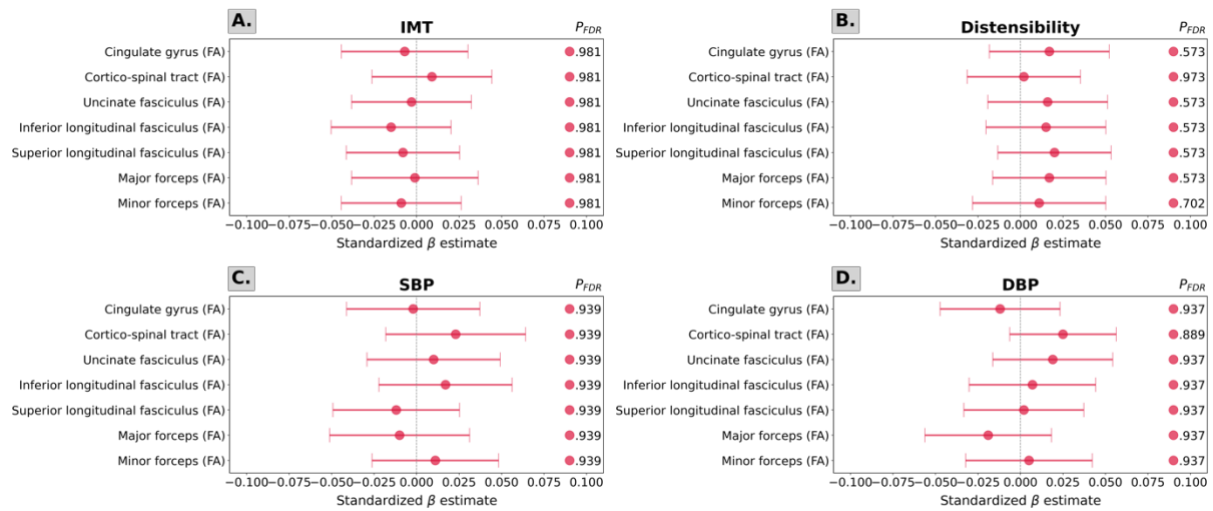
For each exposure of interest (A. intima-media thickness (IMT); B. carotid distensibility; C. Systolic blood pressure (SBP); and D. Diastolic blood pressure (DBP)), the standardized association estimates and their 95% confidence intervals are displayed on the x-axis for each outcome (total brain volume (TBV); grey matter volume (GMV); global fractional anisotropy (FA); and mean diffusivity (MD)), in light blue for boys and pink for girls. The corresponding FDR-corrected P-values are also reported.

Figure S5 | Global vs. regional volumes



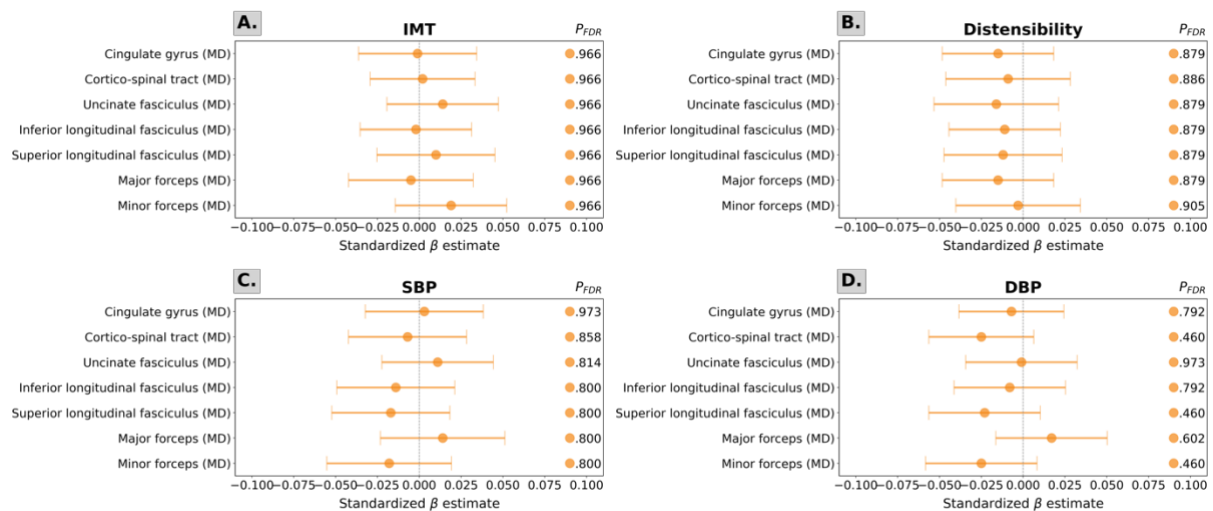
Sankey-like plot representing associations between SBP (above) / DBP (below) and each morphological (i.e., volumetric) brain marker: total intracranial volume (TIV), total brain volume (TBV), cerebro-spinal fluid (CSF), gray and white matter volumes, ventricular volume, subcortical and cortical grey matter volumes and each of the seven subcortical brain regions. The height of each square represents the magnitude of the corresponding estimate and the color indicates its direction (pink for positive associations and blue for negative ones). Estimates that were statistically significant (after adjustment for all covariates and FDR correction) are indicated by an *. Estimates marked with ° were nominally significant, but did not survive FDR correction. Structural relationships between these brain outcomes are represented by the grey lines, with increasing regional specificity from left to right.

Figure S6 | White matter tracts (FA)



For each exposure of interest (**A.** intima-media thickness (IMT); **B.** carotid distensibility; **C.** Systolic blood pressure (SBP); and **D.** Diastolic blood pressure (DBP)), the standardized association estimates and their 95% confidence intervals are displayed on the x-axis for each white matter tract (Cingulate gyrus, Cortico-spinal tract, Uncinate fasciculus, Inferior & Superior longitudinal fasciculus, Major & Minor forceps) average FA value. The corresponding FDR-corrected P-values are also reported.

Figure S7 | White matter tracts (MD)



For each exposure of interest (**A.** intima-media thickness (IMT); **B.** carotid distensibility; **C.** Systolic blood pressure (SBP); and **D.** Diastolic blood pressure (DBP)), the standardized association estimates and their 95% confidence intervals are displayed on the x-axis for each white matter tract (Cingulate gyrus, Cortico-spinal tract, Uncinate fasciculus, Inferior & Superior longitudinal fasciculus, Major & Minor forceps) average MD value. The corresponding FDR-corrected P-values are also reported.