

SUPPLEMENTARY DATA

Supplementary Table S1. Relationships between brain volumes with glycemic control and inflammation

Outcome (cm ³)	Predictor	Adjustment	Parameter Estimate	SE	P-value
GMV	HbA1c (%)	TICV, age, sex, African Ancestry proportion, time from CT scan to MRI scan	-18.3	39.9	0.64
GMV	HbA1c (%)	Above +smoking, BMI	-19.4	39.2	0.62
GMV	CRP (mg/dl)	TICV, age, sex, African Ancestry proportion, time from CT scan to MRI scan	-44.0	44.9	0.33
GMV	CRP (mg/dl)	Above + smoking, BMI, HbA1c, use of statins, hypertension, prior CVD	-64.2	46.1	0.17
WMV	HbA1c (%)	TICV, age, sex, African Ancestry proportion, time from CT scan to MRI scan	-2.5x10 ⁻³	2.2x10 ⁻³	0.27
WMV	HbA1c (%)	Above + smoking, BMI	-1.2x10 ⁻³	2.2x10 ⁻³	0.38
WMV	CRP (mg/dl)	TICV, age, sex, African Ancestry proportion, time from CT scan to MRI scan	3.2x10 ⁻³	2.6x10 ⁻³	0.21
WMV	CRP (mg/dl)	Above + smoking, BMI, HbA1c, use of statins, hypertension, prior CVD	3.1x10 ⁻³	2.6x10 ⁻³	0.24
WMLV*	HbA1c (%)	TICV, age, sex, African Ancestry proportion, time from CT scan to MRI scan	-0.02	0.04	0.68
WMLV*	HbA1c (%)	Above + smoking, BMI	-0.01	0.04	0.76
WMLV*	CRP (mg/dl)	TICV, age, sex, African Ancestry proportion, time from CT scan to MRI scan	3.8x10 ⁻³	0.05	0.94
WMLV*	CRP (mg/dl)	Above + smoking, BMI, HbA1c, use of statins, hypertension, prior CVD	0.01	0.06	0.81

*reflects the 227 scans performed on 3.0T MRI scanners

GMV-gray matter volume; WMV-white matter volume; WMLV-white matter lesion volume; HbA1c-hemoglobin A1c at MRI visit; CRP-high sensitivity C-reactive protein; TICV-total intracranial volume; BMI-body mass index; CVD-cardiovascular disease