Supplementary Figure S5. Association of retinal vessel skeleton density (VSD, in pixel unit) in different retinal region (macular region and other region) with numerical cardiovascular risk factors. Pink denotes artery, blue denotes vein. Model1 unadjusted, Model2 adjusted for age and gender. VSD=Vessel Skeleton Density, CI=Confidence Interval, BMI=Body Mass Index, HDL=High Density Lipoprotein, LDL=Low Density Lipoprotein, HbA1c=glycosylated hemoglobin, SBP=Systolic Blood Pressure, DBP=Diastolic Blood Pressure.

Measurement	Risk factor	N	Model1 Beta(95% Cl)	i.	Model2 Beta(95% CI)
VSD (DD)	BMI	49033 •	-0.11 (-0.12 to -0.10) 🖝	1	-0.09 (-0.10 to -0.08)
VSD (other)	BMI	48176 •	-0.06 (-0.07 to -0.05)		-0.05 (-0.06 to -0.04)
VSD (DD)	Cholesterol	45365	-0.01 (-0.02 to -0.00)	ι φ ι –	-0.00 (-0.01 to 0.01)
VSD (other)	Cholesterol	44567 •	-0.02 (-0.03 to -0.01)	H	-0.01 (-0.02 to -0.00)
VSD (DD)	HDL	43231	• 0.03 (0.02 to 0.04)	нөн	0.02 (0.01 to 0.03)
VSD (other)	HDL	42475	-0.01 (-0.02 to 0.00)	H e H	0.01 (-0.00 to 0.02)
VSD (DD)	LDL	45286	-0.01 (-0.02 to 0.00)	ι φ ι –	0.00 (-0.01 to 0.01)
VSD (other)	LDL	44488	-0.02 (-0.03 to -0.01)	•ł	-0.01 (-0.02 to 0.00)
VSD (DD)	HbA1c	44785 🖝	-0.10 (-0.11 to -0.09)		-0.03 (-0.04 to -0.02)
VSD (other)	HbA1c	44006 🖝	-0.08 (-0.09 to -0.07)	-i	-0.02 (-0.03 to -0.01)
VSD (DD)	SBP	49067 •	-0.20 (-0.21 to -0.19) 🛏	1	-0.11 (-0.12 to -0.10)
VSD (other)	SBP	48207 🔹	-0.16 (-0.17 to -0.15) +	1	-0.10 (-0.11 to -0.09)
VSD (DD)	DBP	49067 🔹	-0.14 (-0.15 to -0.13) 🖝	1	-0.11 (-0.12 to -0.10)
VSD (other)	DBP	48207 🔹	-0.11 (-0.12 to -0.10) 🛛 🛏	1	-0.10 (-0.11 to -0.09)
VSD (other)	BMI	47023	-0.00 (-0.01 to 0.01)	μ.	0.00 (-0.01 to 0.01)
VSD (DD)	BMI	48371	-0.02 (-0.03 to -0.01)	H	-0.01 (-0.02 to -0.00)
VSD (other)	Cholesterol	43499 🔶	-0.02 (-0.03 to -0.01)	÷.	-0.00 (-0.01 to 0.01)
VSD (DD)	Cholesterol	44754	-0.01 (-0.02 to 0.00)	нен	0.01 (0.00 to 0.02)
VSD (other)	HDL	41442	-0.03 (-0.04 to -0.02)	H	-0.01 (-0.02 to 0.00)
VSD (DD)	HDL	42645 🔹	-0.02 (-0.03 to -0.01)	÷.	-0.00 (-0.01 to 0.01)
VSD (other)	LDL	43425	-0.01 (-0.02 to 0.00)	н <mark>н</mark> н —	0.00 (-0.01 to 0.01)
VSD (DD)	LDL	44676 🖕	-0.00 (-0.01 to 0.01)	H o H	0.01 (0.00 to 0.02)
VSD (other)	HbA1c	42961 🖝	-0.05 (-0.06 to -0.04) н	e.	-0.01 (-0.02 to 0.00)
VSD (DD)	HbA1c	44177 🖝	-0.09 (-0.09 to -0.08)	ų.	-0.02 (-0.03 to -0.01)
VSD (other)	SBP	47064 🔹	-0.04 (-0.05 to -0.03))ei	0.01 (0.00 to 0.02)
VSD (DD)	SBP	48403	-0.06 (-0.07 to -0.05)	l I o I	0.02 (0.01 to 0.03)
VSD (other)	DBP	47064	0.02 (0.01 to 0.02)	нен	0.02 (0.01 to 0.03)
VSD (DD)	DBP	48403	• 0.02 (0.02 to 0.03)	Hei	0.04 (0.03 to 0.05)
		-0.2 -0.2 -0.1 0.0 0.0	D.1 -0.1 0.0	0.0 0.0	