Supplementary Figure S4. Association of retinal vessel skeleton density (VSD, in pixel unit) with numerical cardiovascular disease 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% CI)	; Model2 Beta(95% CI
VSD (large)	BMI	48714	-0.08 (-0.09 to -0.07)	-0.07 (-0.08 to -0.06)
VSD (medium)	BMI	48624	-0.04 (-0.05 to -0.03)	-0.03 (-0.04 to -0.02)
VSD (small)	BMI	48019	-0.08 (-0.08 to -0.07)	-0.06 (-0.07 to -0.05)
VSD (large)	Cholesterol	45070	-0.01 (-0.02 to -0.00)	-0.01 (-0.02 to -0.00)
VSD (medium)	Cholesterol	44975	-0.00 (-0.01 to 0.00)	• 0.00 (-0.01 to 0.01)
VSD (small)	Cholesterol	44429	-0.01 (-0.02 to -0.00)	• 0.00 (-0.01 to 0.01)
VSD (large)	HDL	42947	0.02 (0.01 to 0.03)	• 0.00 (-0.01 to 0.01)
VSD (medium)	HDL	42862	u 0.01 (0.00 to 0.02)	0.01 (-0.00 to 0.02)
VSD (small)	HDL	42328	0.01 (0.00 to 0.02)	• 0.02 (0.01 to 0.03)
VSD (large)	LDL	44992	-0.01 (-0.02 to 0.00)	-0.01 (-0.02 to 0.00)
VSD (medium)	LDL	44896	-0.00 (-0.01 to 0.01)	6.00 (-0.01 to 0.01)
VSD (small)	LDL	44351	-0.01 (-0.02 to -0.00)	6 0.00 (-0.01 to 0.01)
VSD (large)	HbA1c	44497	-0.02 (-0.03 to -0.01)	-0.01 (-0.02 to 0.00)
VSD (medium)	HbA1c	44404	-0.06 (-0.07 to -0.05)	-0.02 (-0.03 to -0.01)
VSD (small)	HbA1c	43864	-0.11 (-0.12 to -0.10)	-0.02 (-0.03 to -0.01)
VSD (large)	SBP	48748 •	-0.16 (-0.17 to -0.15)	-0.17 (-0.18 to -0.16)
VSD (medium)	SBP	48659	-0.12 (-0.13 to -0.11)	-0.07 (-0.08 to -0.06)
VSD (small)	SBP	48056	-0.14 (-0.15 to -0.13)	-0.04 (-0.05 to -0.03)
VSD (large)	DBP	48748 🖜	-0.17 (-0.18 to -0.17)	-0.17 (-0.18 to -0.16)
VSD (medium)	DBP	48659	-0.08 (-0.08 to -0.07)	-0.06 (-0.07 to -0.05)
VSD (small)	DBP	48056	-0.06 (-0.06 to -0.05)	-0.04 (-0.04 to -0.03)
VSD (large)	BMI	48701	• 0.04 (0.04 to 0.05)	● 0.04 (0.03 to 0.05)
VSD (medium)	BMI	46834	0.00 (-0.01 to 0.01)	0.01 (-0.00 to 0.02)
VSD (small)	BMI	46866	-0.04 (-0.05 to -0.03)	-0.03 (-0.04 to -0.02)
VSD (large)	Cholesterol	45051	0.01 (0.00 to 0.02)	0.01 (0.00 to 0.02)
VSD (medium)	Cholesterol	43324	-0.01 (-0.02 to 0.00)	0.01 (-0.00 to 0.02)
VSD (small)	Cholesterol	43361	-0.02 (-0.03 to -0.01)	6 0.00 (-0.01 to 0.01)
VSD (large)	HDL	42928	-0.03 (-0.04 to -0.02)	-0.03 (-0.04 to -0.02)
VSD (medium)	HDL	41290	-0.03 (-0.04 to -0.02)	-0.01 (-0.02 to 0.00)
VSD (small)	HDL	41303	-0.01 (-0.02 to 0.00)	0.01 (0.00 to 0.02)
VSD (large)	LDL	44972	0.02 (0.01 to 0.03)	0.02 (0.01 to 0.03)
VSD (medium)	LDL	43249	0.00 (-0.01 to 0.01)	0.01 (-0.00 to 0.02)
VSD (small)	LDL	43286	-0.01 (-0.02 to -0.00)	0.00 (-0.01 to 0.01)
VSD (large)	HbA1c	44483	0.02 (0.01 to 0.02)	0.01 (-0.00 to 0.01)
VSD (medium)	HbA1c	42779	-0.05 (-0.06 to -0.04)	-0.01 (-0.02 to 0.00)
VSD (small)	HbA1c	42804	-0.10 (-0.11 to -0.09)	-0.02 (-0.03 to -0.01)
VSD (large)	SBP	48733	0.04 (0.03 to 0.05)	0.03 (0.02 to 0.04)
VSD (medium)	SBP	46864	-0.04 (-0.05 to -0.03)	0.00 (-0.00 to 0.01)
VSD (small)	SBP	46903	-0.08 (-0.09 to -0.07)	0.01 (0.00 to 0.02)
VSD (large)	DBP	48733	0.04 (0.03 to 0.05)	0.04 (0.03 to 0.05)
VSD (medium)	DBP	46864	0.02 (0.01 to 0.02)	0.02 (0.01 to 0.03)
VSD (small)	DBP	46903	0.00 (-0.01 to 0.01)	0.02 (0.01 to 0.03)