

	CPAP	Age	BMI	MAP	Hypertension	Smoking status	Dyslipidaemia
CRAE							
Controls	-	0.634	0.979	0.851	0.991	0.483	0.977
Mild-Moderate	0.464	0.773	0.765	0.568	0.776	0.578	0.808
Severe	0.012	0.463	0.793	0.353	0.302	0.204	0.952
CRVE							
Controls	-	0.470	0.110	0.396	0.422	0.245	0.275
Mild-Moderate	0.492	0.780	0.434	0.200	0.076	0.763	0.287
Severe	0.475	0.892	0.797	0.674	0.990	0.761	0.573
AVR							
Controls	-	0.926	0.514	0.449	0.502	0.599	0.866
Mild-Moderate	0.374	0.921	0.352	0.116	0.066	0.554	0.135
Severe	0.031	0.929	0.205	0.292	0.094	0.396	0.160

Table S1: Analysis of the effect of confounding factors on static retinal vessel caliber

Caption: Results of mixed ANOVA analysis of the interaction effect of various confounding factors on retinal vessel caliber between baseline and follow up. All values shown are *p* values.

	CRAE	95% CI	CRVE	95% CI	AVR	95% CI	SRAP	95% CI	SRVP	95% CI
CPAP	2.25	-1.04 - 5.54	-1.81	-5.79 - 2.17	0.09	-0.01 – 0.20	0.00	-0.73 – 0.73	0.14	-1.27 – 1.55
No CPAP	-2.57	-5.09 -- 0.06	-1.41	-4.19 - 1.36	0.01	-0.03 – 0.06	0.02	-0.67 – 0.71	0.22	-0.61 – 1.05
P value	0.021		0.867		0.240		0.569		0.750	

Table S2: Comparison of net change in retinal vascular parameters between baseline and follow up, regardless of disease severity

Captions: Results of T-test analysis of net change in retinal vascular parameters (e.g. follow up CRAE minus baseline CRAE). Values not adjusted for confounding factors. All results in μm

	CRAE	95% CI	CRVE	95% CI	AVR	95% CI	SRAP	95% CI	SRVP	95% CI
CPAP										
Controls	-	-	-	-	-	-	-	-	-	-
Mild	4.94	-2.55 – 12.43	-7.71	-13.55 – 1.87	0.05	-0.02 – 0.12	-0.11	-0.44 – 0.22	0.07	-0.69 – 0.83
Moderate	0.58	-6.83 – 7.99	-0.39	-6.29 – 5.51	0.00	-0.05 – 0.05	0.11	-0.22 – 0.44	0.09	-0.77 – 0.95
Severe	2.74	-5.41 – 8.15	-1.67	-5.88 – 2.54	0.02	-0.02 – 0.06	0.18	-1.02 – 1.38	0.17	-0.7 – 1.04
No CPAP										
Controls	0.28	-5.30 – 5.86	-3.79	-11.55 – 3.99	0.03	-0.01 – 0.07	0.14	-0.9 – 1.18	0.05	-1.03 – 1.13
Mild	-1.42	-8.65 – 5.81	1.45	-6.71 – 9.61	-0.01	-0.04 – 0.02	-0.10	-0.82 – 0.62	0.34	-1.53 – 2.21
Moderate	-0.04	-6.21 – 6.08	-2.25	-12.36 – 7.86	0.06	-0.14 – 0.26	0.05	-0.55 – 0.65	0.34	-0.45 – 1.13
Severe	-6.14	-11.67 – 0.59	-3.97	-10.26 – 2.32	-0.01	-0.04 – 0.02	-0.01	-0.73 – 0.71	0.10	-1.49 – 1.69
P value	0.040		0.203		0.748		0.105		0.779	

Table S3: Results of multivariate regression analysis

Caption: Values shown are the net change in retinal vascular parameters (e.g. follow up CRAE minus baseline CRAE), adjusted for age, BMI, hypertension, mean arterial pressure, smoking status and dyslipidaemia. All results in μm