Supplementary Material

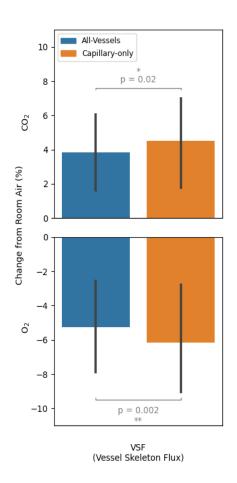


Figure S1. Comparison of the change in OCTA derived VSF (vessel skeleton flux) in all-vessels (including arterioles and venules) versus capillary-only images. (Mean and 95% CI of mean are shown)

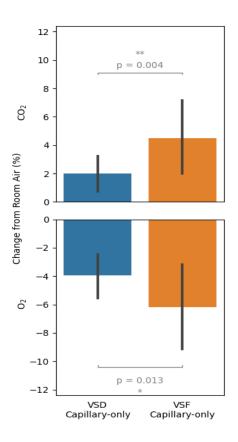


Figure S2. Comparison of the change in OCTA derived VSD (vessel skeleton density) and VSF (vessel skeleton flux) measures in capillary-only images. (Mean and 95% CI of mean are shown)

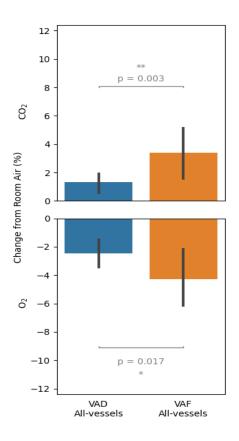


Figure S3. Comparison of the change in OCTA derived VAD (vessel area density) and VAF (vessel area flux) measures in all-vessels (including arterioles and venules) images. (Mean and 95% CI of mean are shown)

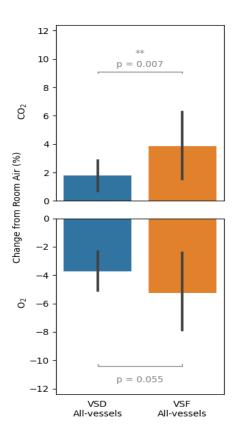
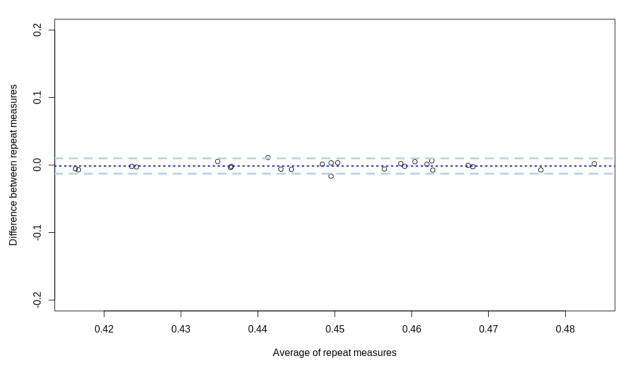
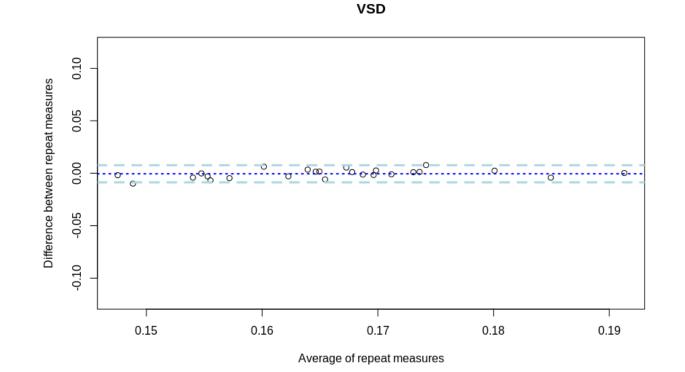


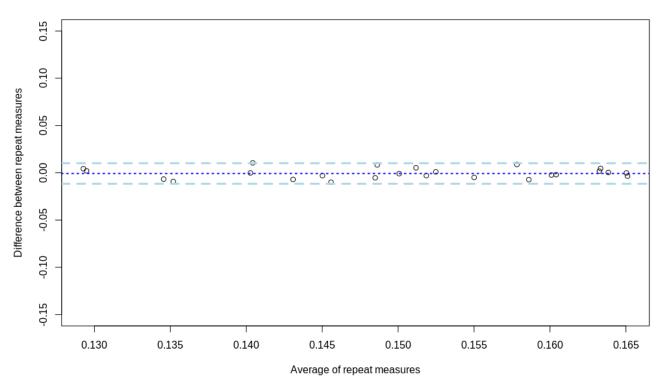
Figure S4. Comparison of the change in OCTA derived VSD (vessel skeleton density) and VSF (vessel skeleton flux) measures in all-vessels (including arterioles and venules) images. (Mean and 95% CI of mean are shown)

Figure S5. Bland–Altman plot of OCTA derived perfusion measures for capillary-only images. (Mean and 95% CI lines are shown. VAD: vessel area density, VSD: vessel skeleton density, VAF: vessel area flux, VSF: vessel skeleton flux)





VAD





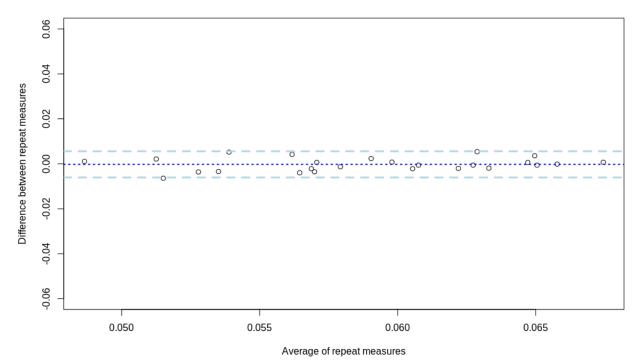


Table S1. *Values (± SD) of retinal perfusion measures in all-vessels and capillary-only images in all*

breathing conditions.

	All-vessels			Capillary-only		
	CO_2	RA	O_2	CO_2	RA	O_2
VAD	0.466 (0.015)	0.46 (0.015)	0.449 (0.02)	0.456 (0.017)	0.45 (0.018)	0.437 (0.023)
VSD	0.165 (0.009)	0.162 (0.009)	0.156 (0.011)	0.169 (0.01)	0.166 (0.011)	0.159 (0.013)
VAF	0.177 (0.009)	0.172 (0.012)	0.165 (0.014)	0.156 (0.008)	0.151 (0.011)	0.143 (0.014)
VSF	0.066 (0.004)	0.064 (0.005)	0.06 (0.006)	0.061 (0.004)	0.059 (0.005)	0.055 (0.006)