

1 Supplementary Table 1 Baseline information and retinal, choroidal and  
 2 retrobulbar parameters in different refractive groups.  
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Parameters	Low myopia (n=17)	High myopia (n=28)	95% CI	P value
Age	29.53±7.96	33.75±6.74	-8.685 to 0.254	0.06
Sex (male:female)	5:12	8:20	/	0.95
AL	25.22±1.27	27.70±1.73	-3.460 to -1.508	< 0.001
SE	-3.88±1.53	-10.82±3.66	-8.522 to -5.348	< 0.001
Retinal parameters				
SVD (%)	22.78±2.86	20.72±2.83	0.297-3.818	< 0.05
DVD (%)	30.63±4.86	26.95±5.58	0.371-6.976	< 0.05
Choroidal parameters				
ChT (µm)	267.94±81.12	156.79±80.37	61.149-161.162	< 0.001
TCA (mm <sup>2</sup> )	5.71±1.39	4.09±1.14	0.857-2.390	< 0.001
LA (mm <sup>2</sup> )	3.90±1.11	2.62±0.86	0.693-1.879	< 0.001
SA (mm <sup>2</sup> )	1.81±0.33	1.47±0.30	0.147-0.528	< 0.001
CVI (LA/TCA)	0.68±0.04	0.63±0.04	0.022-0.067	< 0.001
Retrobulbar parameters				
OA PSV (cm/s)	29.49±5.55	33.26±7.85	-8.163 to 0.620	0.09
OA EDV (cm/s)	8.31±2.94	6.78±2.38	-0.083 to 3.149	0.06
OA PI	1.70±0.53	1.92±0.43	-0.513 to 0.070	0.13
OA RI	0.71±0.08	0.79±0.06	-0.116 to -0.032	< 0.05
CRA PSV	9.82±2.47	8.71±1.90	-0.219 to 2.426	0.10

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	(cm/s)				
CRA EDV	1.96±0.53	1.63±0.81	-0.111 to 0.783	0.14	
	(cm/s)				
CRA PI	1.77±0.32	2.04±0.51	-0.554 to 0.004	0.05	
CRA RI	0.79±0.05	0.82±0.07	-0.063 to 0.014	0.21	
PCA PSV	10.82±2.69	8.05±2.17	1.300-4.246	< 0.001	
	(cm/s)				
PCA EDV	3.08±1.29	1.89±0.91	0.527-1.852	< 0.001	
	(cm/s)				
PCA PI	1.34±0.33	1.69±0.42	-0.584 to -0.101	< 0.01	
PCA RI	0.71±0.08	0.77±0.08	-0.101 to -0.002	< 0.05	

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12 Supplementary Table 2 The associations between interocular differences in SE, AL, CDI and OCTA parameters were shown as beta  
13 coefficients (standard error) and P value<sup>#</sup>

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Param eters	ChT	OCTA						CRA				PCA				OA			
		SVD	DVD	TCA	LA	SA	CVI	PSV	EDV	PI	RI	PSV	EDV	PI	RI	PSV	EDV	PI	RI
AL	-0.005	-0.166	-0.127	-0.356	-1.538	-0.414	-9.112	0.043	0.198	-0.190	-1.293	0.022	-0.078	0.683	2.067	0.012	0.039	0.087	-1.194
	(0.002)	(0.058)	(0.036)	(0.131)	(0.486)	(0.171)	(4.165)	(0.097)	(0.206)	(0.331)	(2.368)	(0.068)	(0.144)	(0.358)	(1.858)	(0.017)	(0.064)	(0.413)	(2.813)
	<0.05*	<0.01 <sup>†</sup>	<0.01 <sup>†</sup>	<0.01 <sup>†</sup>	<0.01 <sup>†</sup>	<0.05*	<0.05*	0.65	0.34	0.57	0.59	0.74	0.59	0.06	0.27	0.51	0.54	0.83	0.67
SE	0.011	0.284	0.280	0.756	3.773	0.822	12.661	-0.052	-0.584	0.663	5.698	-0.013	0.296	-1.670	-6.868	-0.030	-0.124	0.047	0.960
	(0.004)	(0.140)	(0.085)	(0.307)	(1.113)	(0.403)	(9.991)	(0.225)	(0.475)	(0.765)	(5.448)	(0.158)	(0.333)	(0.827)	(4.249)	(0.040)	(0.148)	(0.958)	(6.540)
	<0.05*	<0.05*	<0.01 <sup>†</sup>	<0.05*	<0.01 <sup>†</sup>	<0.05*	0.21	0.82	0.22	0.39	0.30	0.94	0.37	<0.05*	0.11	0.45	0.40	0.96	0.88

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16 <sup>#</sup>Analyzed by mixed-effect generalized linear model with age, gender and signal strength index as fixed factors.

17 \*P<0.05

18 <sup>†</sup>P<0.01

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20 Supplementary Table 3 Correlation analysis between retrobulbar and retinal, choroidal vascularity parameters.

Parameters	CRA				PCA				OA			
	PSV	EDV	PI	RI	PSV	EDV	PI	RI	PSV	EDV	PI	RI
Retinal parameters												
SVD	0.219*	0.078	0.007	0.081	0.205	0.200	-0.096	-0.023	-0.019	-0.001	0.024	-0.037
DVD	0.217*	0.463	-0.010	0.048	0.181	0.250*	-0.139	-0.137	-0.040	-0.048	0.004	-0.037
Choroidal vascularity												
TCA	0.262*	0.234*	-0.176	-0.080	0.466 <sup>†</sup>	0.350 <sup>†</sup>	-0.084	0.003	0.026	-0.024	0.136	0.024
LA	0.227*	0.192	-0.152	-0.048	0.418 <sup>†</sup>	0.326 <sup>†</sup>	-0.102	-0.036	-0.023	-0.057	0.128	0.041
SA	0.266*	0.229*	-0.163	-0.072	0.468 <sup>†</sup>	0.350 <sup>†</sup>	-0.073	0.015	0.037	-0.012	0.134	0.010
CVI	0.282*	0.212*	-0.120	-0.041	0.403 <sup>†</sup>	0.291 <sup>†</sup>	-0.026	0.070	0.086	0.011	0.119	-0.009

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\*p&lt;0.05

<sup>†</sup>p<0.01

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