Assessment of OCT-based macular curvature and its relationship with macular microvasculature in children with anisomyopia

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- Supplementary Material -

Supplementary Table 1. Demographic and general ocular parameters of eyes in children with anisomyopia.

Parameter	Sample size	More myopic eyes	Contralateral eyes	P value
SER	52	-2.94±1.49	-0.36±1.57	<0.001
CR	52	42.93±1.47	42.92±1.46	0.814
CCT	52	548.92±31.16	547.62±31.13	0.260
ACD	52	3.27±0.25	3.19±0.27	<0.001
AL	52	24.68±0.95	23.60±1.01	<0.001
IOP	52	17.09±2.01	17.38±2.70	0.490

P value determined by Paired t-test.

SER: spherical equivalent refraction; CR: corneal radius; CCT: central corneal thickness; ACD: anterior chamber depth; AL: axial length; IOP: intraocular pressure.

Supplementary Table 2. Morphological and vascular parameters of the macular region in the more myopic eyes and less myopic eyes among children with anisomyopia.

Parameter	More myopic eyes	Less myopic eyes	p[a]
Retinal thickness (RT) (um)			
1-mm diameter circle	255.88±17.12	259.38±14.96	**<0.001**
3-mm diameter circle	328.49±12.72	335.01±13.6	**<0.001**
6-mm diameter circle	296.93±10.55	303.01±11.47	**<0.001**
Choroidal thickness (ChT) (um)			
1-mm diameter circle	283.43±73.32	387.13±82.09	**<0.001**
3-mm diameter circle	283.98±69.75	378.47±79.01	**<0.001**
6-mm diameter circle	275.51±59.43	355.23±68.48	**<0.001**
Radical peripapillary capillary plexus (RPCP) vessel density			
1-mm diameter circle	/	/	/
3-mm diameter circle	3.07±1.41	2.96±1.43	0.412
6-mm diameter circle	18.27±2.06	17.67±2.83	0.067
Superficial vascular plexus (SVP) vessel density			
1-mm diameter circle	11.62±4.23	12.12±4.17	0.230
3-mm diameter circle	46.78±4.79	47.5±4.72	0.260
6-mm diameter circle	40.62±3.40	41.35±3.15	0.106
Intermediate capillary plexus (ICP) vessel density			
1-mm diameter circle	18.61±6.25	20.59±5.63	**0.005**
3-mm diameter circle	31.68±4.93	33.97±3.51	**0.005**
6-mm diameter circle	27.08±4.33	29.51±3.83	**<0.001**
Deep capillary plexus (DCP) vessel density			
1-mm diameter circle	1.87±2.36	2.22±2.33	0.184
3-mm diameter circle	5.62±3.39	8.0±3.76	**<0.001**
6-mm diameter circle	8.17±4.03	11.67±4.55	**<0.001**
Choriocapillaris (CC) vessel density			
1-mm diameter circle	83.54±5.95	82.10±4.01	0.106
3-mm diameter circle	78.69±2.94	78.20±3.20	0.356
6-mm diameter circle	75.71±1.44	76.18±1.85	0.061

Supplementary Table 3. Correlation between the macular curvature index, retinal and choroidal microvascularity in 6-mm circle region

Parameter		RPCP	SVP	ICP	DCP	CC
Horizontal MCI	**r**	0.178	-0.060	-0.183	-0.377	-0.047
	P value	0.070	0.542	0.063	0.000	0.637
	P*value	0.790	0.887	0.699	0.003	0.900
Vertical MCI	**r**	0.103	-0.008	-0.218	-0.237	-0.148
	P value	0.300	0.938	0.026	0.015	0.135
	P*value	0.613	0.762	0.223	0.126	0.186
Average MCI	**r**	0.151	-0.037	-0.213	-0.329	-0.102
	P value	0.127	0.708	0.030	0.001	0.304
	P*value	0.677	0.929	0.386	0.016	0.432

RPCP: radical peripapillary capillary plexus; SVP: superficial vascular plexus; ICP: intermediate capillary plexus; DCP: deep capillary plexus; CC: Choriocapillaris; MCI: macular curvature index.

P value: Pearson's correlation

P*value: Pearson's correlation adjusted for AL.