

Table S1 Differences of the one-year axial elongation among quartiles of choroidal and retinal

Parameters	thickness in non-myopic students			
	Difference (95%CI), Model 1	<i>P</i>	Difference (95%CI), Model 2	<i>P</i>
Subfoveal choroidal thickness				
Q1 (98~220μm)	54.15(-35.63, 143.94)	0.235	46.48(-45.19, 138.15)	0.318
Q2 (220~262μm)	-17.35(-91.11, 56.42)	0.642	-19.80(-94.20, 54.61)	0.599
Q3 (262~317μm)	-10.93(-65.36, 43.51)	0.692	-10.41(-66.55, 45.74)	0.714
Q4 (317~513μm)	0.00 (Reference)		0.00 (Reference)	
Nasal choroidal thickness				
Q1 (45~124μm)	93.22(8.24, 178.21)	0.032	93.49(5.26, 181.71)	0.038
Q2 (124~155μm)	10.53(-61.87, 82.94)	0.774	5.20(-70.22, 80.63)	0.892
Q3 (155~190μm)	22.88(-38.17, 83.94)	0.459	8.92(-56.38, 74.23)	0.787
Q4 (190~410μm)	0.00 (Reference)		0.00 (Reference)	
Temporal choroidal thickness				
Q1 (87~237μm)	2.21(-118.20, 122.62)	0.971	-3.14(-125.25, 118.98)	0.960
Q2 (237~276μm)	-58.62(-132.49, 15.25)	0.119	-56.06(-130.92, 18.81)	0.141
Q3 (276~317μm)	-27.89(-90.02, 34.25)	0.376	-25.93(-90.22, 38.35)	0.425
Q4 (317~685μm)	0.00 (Reference)		0.00 (Reference)	
Subfoveal retinal thickness				
Q1 (176~205μm)	33.04(-22.51, 88.60)	0.242	27.19(-29.90, 84.28)	0.349
Q2 (205~215μm)	82.24(21.99, 142.48)	0.008	81.20(19.98, 142.41)	0.010
Q3 (215~225μm)	25.42(-34.83, 85.66)	0.406	17.92(-44.67, 80.50)	0.573
Q4 (225~290μm)	0.00 (Reference)		0.00 (Reference)	
Nasal retinal thickness				
Q1 (247~285μm)	51.41(-11.78, 114.59)	0.110	61.41(-3.73, 126.55)	0.064
Q2 (285~296μm)	-55.33(-113.83, 3.17)	0.064	-51.21(-111.09, 8.67)	0.093
Q3 (296~310μm)	-5.61(-58.70, 47.48)	0.835	-0.10(-53.94, 53.74)	0.997
Q4 (310~403μm)	0.00 (Reference)		0.00 (Reference)	
Temporal retinal thickness				
Q1 (179~252μm)	73.26(1.96, 144.56)	0.044	71.92(0.19, 143.65)	0.049
Q2 (252~260μm)	67.78(12.84, 122.72)	0.016	71.07(15.50, 126.63)	0.013
Q3 (260~270μm)	12.69(-41.11, 66.50)	0.642	24.25(-31.11, 79.60)	0.388
Q4 (279~369μm)	0.00 (Reference)		0.00 (Reference)	

Model 1: unadjusted ANOVA;

Model 2: linear regression model adjusting for sex, age and height;

Bold indicates statistically significant.

Table S2 Differences of the one-year axial elongation among quartiles of choroidal and retinal thickness with in myopic students

Parameters	Difference (95%CI), Model 1	<i>P</i>	Difference (95%CI), Model 2	<i>P</i>
Subfoveal choroidal thickness				
Q1 (98~220μm)	19.82(-6.77, 46.41)	0.144	18.75(-7.55, 45.06)	0.162
Q2 (220~262μm)	9.43(-17.30, 36.17)	0.489	8.44(-17.99, 34.87)	0.531
Q3 (262~317μm)	4.89(-22.21, 31.99)	0.723	2.48(-24.40, 29.37)	0.856
Q4 (317~513μm)	0.00 (Reference)		0.00 (Reference)	
Nasal choroidal thickness				
Q1 (45~124μm)	10.62(-17.28, 38.51)	0.455	6.85(-20.94, 34.63)	0.629
Q2 (124~155μm)	17.61(-10.93, 46.16)	0.226	15.55(-12.88, 43.97)	0.283
Q3 (155~190μm)	13.47(-15.29, 42.23)	0.358	8.17(-20.54, 36.87)	0.577
Q4 (190~410μm)	0.00 (Reference)		0.00 (Reference)	
Temporal choroidal thickness				
Q1 (87~237μm)	34.71(6.60, 62.83)	0.016	34.75(6.85, 62.66)	0.015
Q2 (237~276μm)	15.79(-12.70, 44.29)	0.277	14.18(-14.09, 42.44)	0.325
Q3 (276~317μm)	24.99(-4.22, 54.20)	0.093	24.54(-4.53, 53.62)	0.098
Q4 (317~685μm)	0.00 (Reference)		0.00 (Reference)	
Subfoveal retinal thickness				
Q1 (176~205μm)	0.77(-23.75, 25.28)	0.951	1.73(-22.65, 26.11)	0.889
Q2 (205~215μm)	0.44(-25.34, 26.21)	0.973	1.69(-24.07, 27.45)	0.897
Q3 (215~225μm)	-7.33(-32.93, 18.27)	0.574	-6.27(-31.70, 19.16)	0.629
Q4 (225~290μm)	0.00 (Reference)		0.00 (Reference)	
Nasal retinal thickness				
Q1 (247~285μm)	16.28(-11.56, 44.12)	0.252	18.91(-8.97, 46.79)	0.183
Q2 (285~296μm)	1.04(-27.68, 29.77)	0.943	3.07(-25.54, 31.67)	0.833
Q3 (296~310μm)	-4.68(-33.13, 23.78)	0.747	-0.82(-29.19, 27.54)	0.955
Q4 (310~403μm)	0.00 (Reference)		0.00 (Reference)	
Temporal retinal thickness				
Q1 (179~252μm)	43.06(15.83, 70.28)	0.002	46.44(18.74, 74.14)	0.001
Q2 (252~260μm)	30.08(1.52, 58.63)	0.039	29.67(1.18, 58.15)	0.041
Q3 (260~270μm)	42.88(14.53, 71.22)	0.003	43.35(15.20, 71.50)	0.003
Q4 (279~369μm)	0.00 (Reference)		0.00 (Reference)	

Model 1: unadjusted ANOVA;

Model 2: linear regression model adjusting for sex, age and height;

Bold indicates statistically significant.

Figure S1 Structural equation model about the association of choroidal (A) and retinal thickness (B) with the one-year axial elongation. † Non-myopic group. †† Myopic group. Model was adjusted for sex, age and height. Following the standard conventions, latent variables were portrayed as oval and manifest variables were portrayed as rectangles. E, error of the variables.

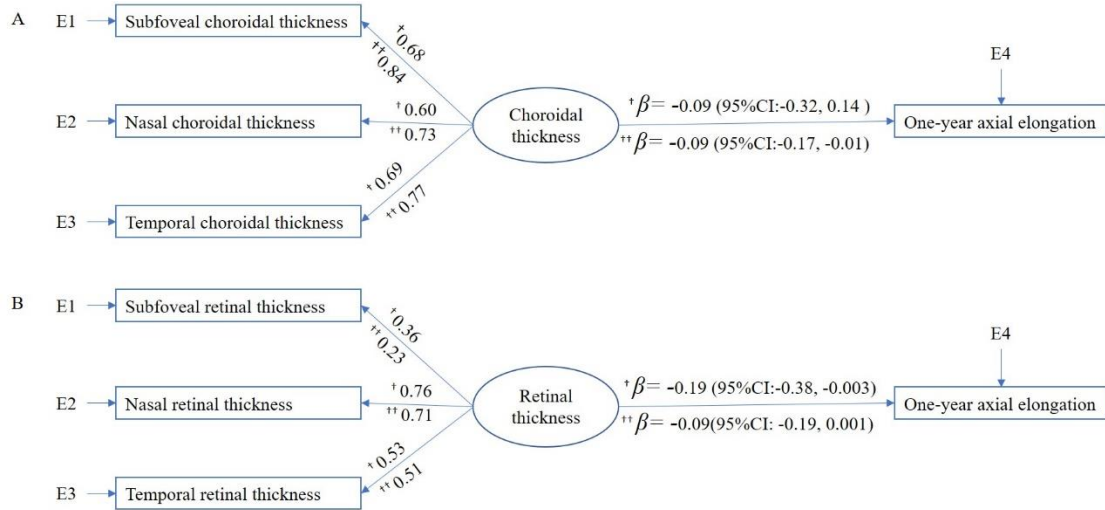


Figure S2 The distribution of one-year axial elongation stratified by quartiles of choroidal thickness and retinal thickness at baseline in non-myopic students. (A) Subfoveal choroidal thickness; (B) Nasal choroidal thickness; (C) Temporal choroidal thickness; (D) Subfoveal retinal thickness; (E) Nasal retinal thickness; (F) Temporal retinal thickness. *The difference between groups is statistically significant.

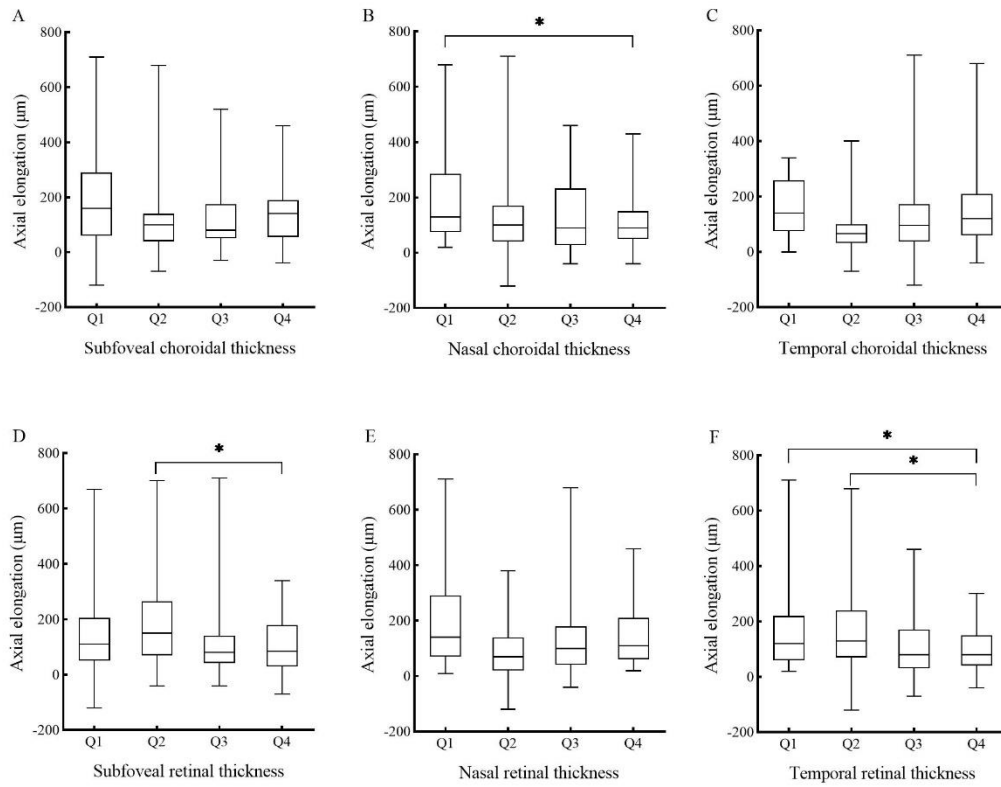


Figure S3 The distribution of one-year axial elongation stratified by quartiles of choroidal thickness and retinal thickness at baseline in myopic students. (A) Subfoveal choroidal thickness; (B) Nasal choroidal thickness; (C) Temporal choroidal thickness; (D) Subfoveal retinal thickness; (E) Nasal retinal thickness; (F) Temporal retinal thickness. *The difference between groups is statistically significant.

