

Supplemental material

eFigure 1. Scattering plots showing the relationship between rate of AL change during follow-up and age at baseline.

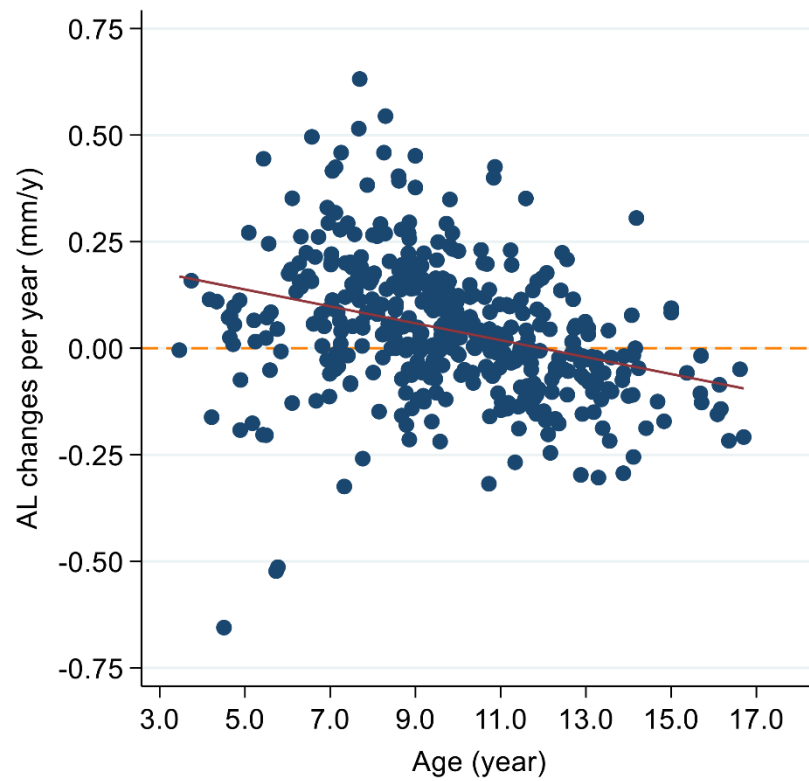
eFigure 2. Box plots showing the distribution of rate of AL change during follow-up by refractive status at baseline.

eTable 1. Magnitude of AL reduction for subjects with AL shortening ($\Delta\text{AL} > 0.05$ mm/year) during the follow-up.

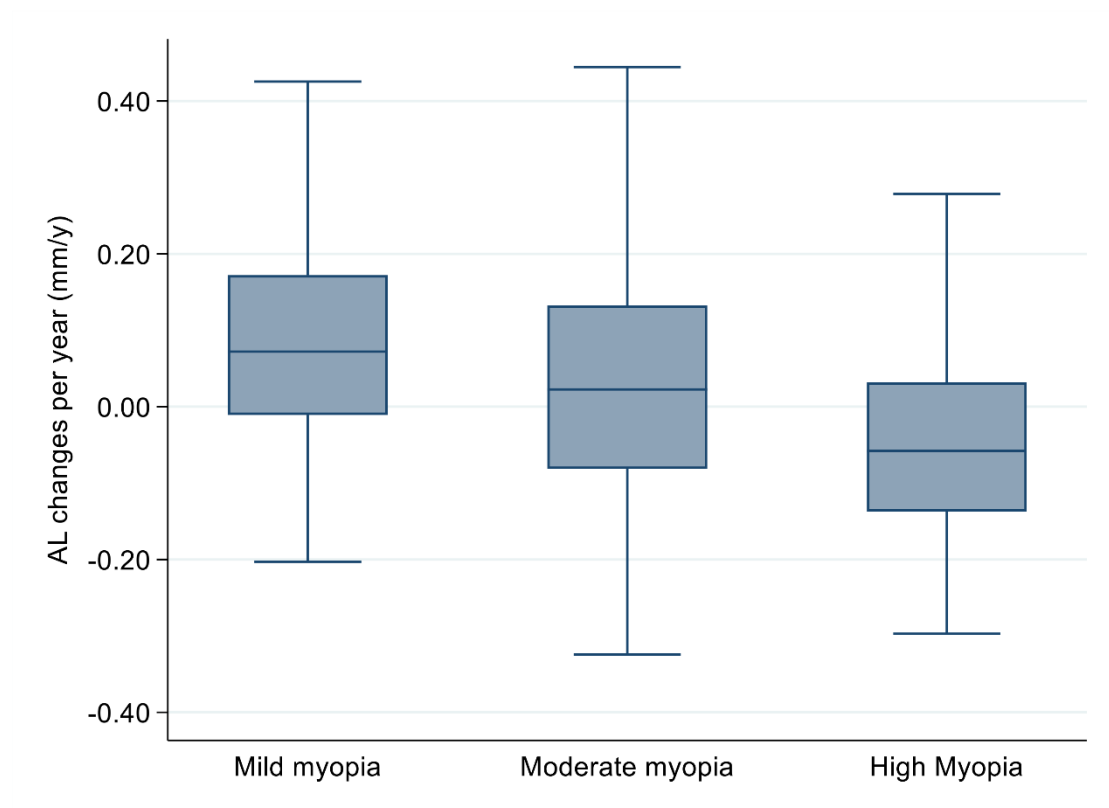
eTable 2. Correlations between spherical equivalent refraction and axial length.

eTable 3. Comparisons of clinical features between the girls and boys in the study.

eFigure 1. Scattering plots showing the relationship between rate of AL change during follow-up and age at baseline. AL=axial length.



eFigure 2. Box plots showing the distribution of rate of AL change during follow-up by refractive status at baseline. Refractive status was categorized into 3 groups as follows based on spherical equivalent refraction (SER): mild myopia ($-3.0 < \text{SER} \leq -0.5$ D), moderate myopia ($-6.0 < \text{SER} \leq -3.0$ D) and high myopia ($\text{SER} \leq -6.0$ D).



eTable 1. Magnitude of AL reduction for subjects with AL shortening ($\Delta\text{AL} > 0.05$ mm/year) during the follow-up.

	N	Mean (SD)	P-value*
Total	115	-0.142 (0.095)	–
Age group			0.010
3-5	4	-0.271 (0.261)	
5-7	10	-0.210 (0.171)	
7-9	13	-0.145 (0.082)	
9-11	22	-0.105 (0.065)	
11-13	37	-0.133 (0.056)	
13-15	21	-0.140 (0.075)	
15-17	8	-0.137 (0.056)	
Sex			0.164
Girl	60	-0.154 (0.107)	
Boy	55	-0.129 (0.080)	
Refractive status			
Mild myopia	30	-0.105 (0.060)	0.045
Moderate myopia	36	-0.158 (0.112)	
High myopia	45	-0.145 (0.081)	
Axial high myopia			0.271
Axial length < 26.0mm	73	-0.135 (0.099)	
Axial length $\geq$ 26.0mm	42	-0.155 (0.088)	

AL=axial length; SD=standard deviation; Axial shortening was defined as AL reduction from baseline > 0.05 mm/year.

*Bold indicates statistically significant.

eTable 2. Correlations between spherical equivalent refraction and axial length.

SER parameter	AL parameter	Pearson's r	P-value
Baseline SER	Baseline AL	-0.728	<0.0001
Last SER	Last AL	-0.747	<0.0001
SER rate (diopter/year)	AL rate (mm/year)	-0.655	<0.0001

SER= spherical equivalent refraction; AL = axial length.

eTable 3. Comparisons of clinical features between the girls and boys in the study.

	Girl	Boy	P-value
No. of participants	200 (46.1%)	234 (53.9%)	–
Age (year)	9.92 (2.53)	9.56 (2.58)	0.145
Baseline SER, diopter	-3.98 (2.80)	-3.53 (2.39)	0.085
Refractive status			0.581
Mild myopia	82 (41.00%)	109 (46.58%)	
Moderate myopia	57 (28.50%)	66 (28.21%)	
High myopia	44 (22.00%)	41 (17.52%)	
Missing	17 (8.50%)	18 (7.69%)	
Treatment compliance, %	81.4% (14.9%)	82.0% (17.8%)	0.703
Treatment duration, months	22.2 (6.1)	22.6 (5.8)	0.505
AL rate (mm/year)	0.019 (0.156)	0.066 (0.162)	0.002

SER= spherical equivalent refraction; AL = axial length.