

Supplemental Table 1: Changes in parafoveal and perifoveal retinal thickness over one year, by age group

		Age 6-7 y	Age 8-9 y	Age 10-11 y	Age 12-13 y	Age 14-15 y	Age 16-17 y
Parafoveal	Myopic Shift	-3.10*§	-3.17*§	-6.16*§	-3.28*§	-1.88*§	-1.09
Temporal	Non-Myopic Shift	-0.11	-1.38†	-3.27	-1.51	-2.19*§	-0.49
	p‡	0.01§	/¶	/	/	/	/
Perifoveal	Myopic Shift	-5.04*§	-1.34	-1.07	1.68†	0.83	0.65
Temporal	Non-Myopic Shift	-1.12	1.61*§	1.48	2.34	0.71	2.59
	p	<0.01§	0.01§	/	/	/	/
Parafoveal	Myopic Shift	-5.65*§	-2.57	-1.97	-1.25	-2.47*§	-1.85
Nasal	Non-Myopic Shift	-3.70*§	0.53	-1.49	-0.86	-2.72*§	-1.38
	p	/	0.04	/	/	/	/
Perifoveal	Myopic Shift	0.20	-1.33	-2.88	-0.80	0.29	2.20*§
Nasal	Non-Myopic Shift	1.60*§	1.70*§	0.72	0.65	1.32†	1.20
	p	/	0.02	0.03	/	/	/
Parafoveal	Myopic Shift	0.10	2.65*§	4.77*§	3.54*§	3.38*§	2.01†
Superior	Non-Myopic Shift	4.75*§	6.46*§	5.34*§	6.53*§	3.67*§	2.93†
	p	<0.01§	<0.01§	/	/	/	/
Perifoveal	Myopic Shift	-8.72*§	-6.67*§	-6.78*§	-5.56*§	-5.69*§	-5.55*§
Superior	Non-Myopic Shift	-5.78*§	-6.00*§	-6.20*§	-4.33*§	-5.87*§	-6.70*§
	p	<0.01§	/	/	/	/	/
Parafoveal	Myopic Shift	-10.27*§	-7.42*§	-7.35*§	-5.85*§	-5.30*§	-2.83
Inferior	Non-Myopic Shift	-8.60*§	-8.23*§	-8.99*§	-5.19†	-5.34*§	-2.59
	p	/	/	/	/	/	/
Perifoveal	Myopic Shift	5.70*§	6.68*§	5.86†	6.37*§	7.14*§	8.62*§
Inferior	Non-Myopic Shift	8.93*§	10.73*§	9.86*§	8.74*§	9.04*§	10.00*§
	p	0.02§	<0.01§	/	/	/	/

*: Significant longitudinal change $p < 0.01$; †: Significant longitudinal change $p < 0.05$; §: $p < 0.05$ after Bonferroni correction ‡: The difference between participants with and without myopic shift; ¶: indicates that the difference between groups was statistically insignificant.

Supplemental Table 2: The thickness change of the parafoveal and perifoveal ganglion cell complex over one year, by age group

		Age 6-7 y	Age 8-9 y	Age 10-11 y	Age 12-13 y	Age 14-15 y	Age 16-17 y
Parafoveal	Myopic Shift	-1.36	-1.84	-4.52*§	-3.03*§	-2.45*§	0
Temporal	Nonmyopic Shift	0.20	-2.73*§	-3.90*§	-2.41†	-2.41*§	-0.08
	p‡	/¶	/	/	/	/	/
Perifoveal	Myopic Shift	-2.88*§	-0.39	-0.46	0.72	-0.05	7.91†
Temporal	Nonmyopic Shift	-1.10*§	0.07	0.37	1.15	-0.10	6.97*§
	p	0.02	/	/	/	/	/
Parafoveal	Myopic Shift	-4.66*§	-1.74	-1.17	-0.74	-2.63*§	-5.22*§
Nasal	Nonmyopic Shift	-5.03*§	-1.06	-1.67†	-1.97†	-3.41*§	-3.89*§
	p	/	/	/	/	/	/
Perifoveal	Myopic Shift	0.07	-0.67	-1.75†	-0.67	-2.03*§	-8.78*§
Nasal	Nonmyopic Shift	-0.18	0.06	-0.51	-0.56	-1.05*§	-9.11*§
	p	/	/	/	/	0.02	/
Parafoveal	Myopic Shift	3.26*§	5.32	7.42*§	5.11*§	4.48*§	4.52*§
Superior	Nonmyopic Shift	4.21*§	6.17*§	6.69*§	5.97*§	4.95*§	3.69*§
	p	/	/	/	/	/	/
Perifoveal	Myopic Shift	-3.72*§	-2.81	-2.52*§	-2.98*§	-3.93*§	-4.48
Superior	Nonmyopic Shift	-3.25*§	-2.88*§	-2.85*§	-2.14*§	-3.82*§	-4.83*§
	p	/	/	/	/	/	/
Parafoveal	Myopic Shift	-9.88*§	-7.98*§	-8.85*§	-8.38*§	-8.15*§	-5.96*§
Inferior	Nonmyopic Shift	-10.68*§	-10.56*§	-10.65*§	-8.46*§	-8.38*§	-8.00*§
	p	/	0.03	/	/	/	/
Perifoveal	Myopic Shift	4.34†	3.37	2.44†	2.43*§	2.28*§	3.43*§
Inferior	Nonmyopic Shift	3.93*§	4.63*§	4.27*§	3.19*§	3.23*§	3.39*§
	p	/	<0.01§	/	/	/	/

*: Significant longitudinal change $p < 0.01$; †: Significant longitudinal change $p < 0.05$; §: $p < 0.05$ after Bonferroni correction ‡: The difference between participants with and without myopic shift; ¶: indicates that the difference between groups was statistically insignificant.

Supplemental Table 3: The thickness change of the parafoveal and perifoveal outer retina layers over one year, by age group

		Age 6-7	Age 8-9	Age 10-11	Age 12-13	Age 14-15	Age 16-17
		y	y	y	y	15 y	y
Parafoveal	Myopic Shift	-1.74†	-1.33	-1.64	-0.25	0.57	-1.09
Temporal	Non-Myopic Shift	-0.31	1.36*§	0.63	0.90	0.22	-0.40
	p‡	/¶	<0.01§	/	/	/	/
Perifoveal	Myopic Shift	-2.16*§	-0.95	-0.61	0.96†	0.88	-7.26†
Temporal	Non-Myopic Shift	-0.02	1.54*§	1.11	1.18	0.81	-4.38
	p	<0.01§	/	/	/	/	/
Parafoveal	Myopic Shift	-0.99	-0.83	-0.81	-0.52	0.15	3.37*§
Nasal	Non-Myopic Shift	1.34†	1.60*§	0.18	1.10	0.69	2.51*§
	p	0.04	0.01§	/	/	/	/
Perifoveal	Myopic Shift	0.13	-0.66	-1.13	-0.13	2.31*§	10.98*§
Nasal	Non-Myopic Shift	1.77*§	1.64*§	1.23*§	1.21†	2.37*§	10.31*§
	p	/	0.01§	0.03	/	/	/
Parafoveal	Myopic Shift	-3.16*§	-2.66	-2.65*§	-1.58†	-1.10	-2.52†
Superior	Non-Myopic Shift	0.55	0.29	-1.35†	0.56	-1.28*§	-0.76
	p	<0.01§	<0.01§	/	/	/	/
Perifoveal	Myopic Shift	-4.99*§	-3.86	-4.26*§	-2.58*§	-1.76*§	-1.07
Superior	Non-Myopic Shift	-2.53*§	-3.12*§	-3.34*§	-2.20*§	-2.05*§	-1.86†
	p	<0.01§	/	/	/	/	/
Parafoveal	Myopic Shift	-0.39	0.57	1.50†	2.53*§	2.85*§	3.12†
Inferior	Non-Myopic Shift	2.07*§	2.33*§	1.66†	3.26*§	3.04*§	5.41*§
	p	<0.01§	0.01§	/	/	/	/
Perifoveal	Myopic Shift	1.36	3.31	3.42†	3.95*§	4.86*§	5.19*§
Inferior	Non-Myopic Shift	5.00*§	6.10*§	5.59*§	5.55*§	5.81*§	6.61*§
	p	/	<0.01§	/	/	/	/

*: Significant longitudinal change $p < 0.01$; †: Significant longitudinal change $p < 0.05$; §: $p < 0.05$ after Bonferroni correction ‡: The difference between participants with and without myopic shift; ¶: indicates that the difference between groups was statistically insignificant.