

Title page

Title: Analysis of axial length of Marfan syndrome with bilateral ectopia lentis by Z-scores for Chinese patients under 20 years old

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Age	AL			CCR						WTW		
	Published normative	MFS eyes	Z-AL	Published normative		MFS eyes		Z-CCR		Published normative	MFS eyes	Z-WTW
				OD	OS	OD	OS	OD	OS			
3	22.10±0.79	24.28 ± 2.88	2.76 ± 3.64	7.86 ± 0.26	7.86 ± 0.26	8.41 ± 0.18	8.43 ± 0.18	2.11 ± 0.72	2.18 ± 0.69	-	-	-
4	22.15±0.72	23.88 ± 1.48	2.40 ± 2.05	7.82 ± 0.28	7.83 ± 0.28	8.38 ± 0.27	8.39 ± 0.26	2.03 ± 0.97	2.05 ± 0.95	12.00 ± 0.38	12.24 ± 0.481	0.71 ± 1.56
5	22.31±0.68	22.73 ± 1.15	0.61 ± 1.69	7.84 ± 0.26	7.85 ± 0.26	8.29 ± 0.29	8.28 ± 0.28	1.69 ± 1.12	1.67 ± 1.06	12.00 ± 0.38	11.94 ± 0.529	-0.16 ± 1.41
6	22.49±0.75	24.35 ± 2.54	2.48 ± 3.38	7.84 ± 0.26	7.84 ± 0.25	8.33 ± 0.35	8.33 ± 0.36	1.91 ± 1.37	1.95 ± 1.45	12.00 ± 0.38	12.23 ± 0.741	0.61 ± 1.98
7	22.76±0.79	24.42 ± 3.09	2.11 ± 3.92	7.83 ± 0.27	7.84 ± 0.28	8.33 ± 0.35	8.31 ± 0.37	1.85 ± 1.30	1.70 ± 1.33	12.00 ± 0.38	11.62 ± 0.642	-1.02 ± 1.71
8	23.06±0.88	24.04 ± 1.96	1.11 ± 2.23	7.82 ± 0.26	7.82 ± 0.26	8.28 ± 0.39	8.26 ± 0.42	1.80 ± 1.53	1.70 ± 1.60	12.00 ± 0.38	12.29 ± 0.485	0.75 ± 1.29
9	23.34±0.89	24.73 ± 1.91	1.57 ± 2.15	7.83 ± 0.26	7.84 ± 0.26	8.10 ± 0.14	8.10 ± 0.16	1.04 ± 0.53	1.03 ± 0.62	12.00 ± 0.38	11.57 ± 0.306	-1.17 ± 0.84
10	23.58±1.01	26.20 ± 3.41	2.60 ± 3.38	7.86 ± 0.26	7.87 ± 0.26	8.34 ± 0.32	8.33 ± 0.40	1.84 ± 1.21	1.75 ± 1.52	12.00 ± 0.38	12.23 ± 0.563	0.59 ± 1.49
11	23.77±1.03	25.24 ± 2.19	1.43 ± 2.12	7.84 ± 0.26	7.84 ± 0.26	8.35 ± 0.39	8.46 ± 0.27	1.96 ± 1.49	2.40 ± 1.02	12.00 ± 0.38	12.36 ± 0.442	0.94 ± 1.18
12	23.94±1.08	23.75 ± 1.12	-0.17 ± 1.03	7.84 ± 0.26	7.85 ± 0.26	8.13 ± 0.13	8.14 ± 0.11	1.15 ± 0.51	1.14 ± 0.42	12.00 ± 0.38	11.58 ± 0.460	-1.13 ± 1.22
13	24.10±1.17	26.14 ± 2.14	1.74 ± 1.83	7.85 ± 0.28	7.86 ± 0.28	8.46 ± 0.19	8.50 ± 0.25	2.15 ± 0.69	2.35 ± 0.90	12.00 ± 0.38	12.00 ± 0.200	-0.02 ± 0.54
14	24.41±1.30	26.08 ± 3.86	1.28 ± 2.97	7.85 ± 0.29	7.86 ± 0.29	8.16 ± 0.26	8.14 ± 0.29	1.07 ± 0.89	1.01 ± 1.02	12.00 ± 0.38	11.70 ± 0.183	-0.82 ± 0.50
15	24.50±1.21	26.60 ± 2.24	1.74 ± 1.86	7.83 ± 0.26	7.84 ± 0.25	8.18 ± 0.11	8.19 ± 0.14	1.38 ± 0.44	1.39 ± 0.57	12.00 ± 0.38	12.12 ± 0.325	0.30 ± 0.87
16	24.65 ± 1.22	-	-	7.82 ± 0.29	7.82 ± 0.27	-	-	-	-	12.00 ± 0.38	-	-
17	24.58 ± 1.14	26.70 ± 2.38	1.86 ± 2.09	7.78 ± 0.25	7.78 ± 0.26	8.15 ± 0.43	8.18 ± 0.41	1.49 ± 1.72	1.57 ± 1.60	12.00 ± 0.38	-	-
18	24.50 ± 1.03	25.67 ± 2.46	1.13 ± 2.39	7.79 ± 0.26	7.80 ± 0.27	8.02 ± 0.15	7.99 ± 0.18	0.85 ± 0.56	0.73 ± 0.67	12.00 ± 0.38	12.13 ± 0.771	0.35 ± 2.07
19	24.50 ± 1.03	26.54 ± 1.97	1.98 ± 1.92	7.79 ± 0.26	7.90 ± 0.27	8.35 ± 0.27	8.34 ± 0.28	2.10 ± 1.02	2.05 ± 1.04	12.00 ± 0.38	12.67 ± 1.719	1.80 ± 3.34
20	24.50 ± 1.03	26.01 ± 2.29	1.47 ± 2.23	7.79 ± 0.26	7.80 ± 0.27	8.03 ± 0.64	8.00 ± 0.73	0.90 ± 2.42	0.76 ± 2.74	12.00 ± 0.38	12.05 ± 0.071	0.12 ± 0.21

Supplementary Table S1. The external age-matched reference data used in the current study.

AL, axial length. CCR, corneal curvature radius. MFS, Marfan syndrome. WTW, white-to-white horizontal corneal diameter.