

Supplementary Table 1. Partial Correlation Analysis between Macular Outward Scleral Height and Ocular Parameters, after Adjusting for Sex in All Subjects

Variables	Nasal MOSH		Temporal MOSH		Superior MOSH		Inferior MOSH		Average MOSH	
	r	p value	r	p value	r	p value	r	p value	r	p value
Age (years)	-0.11	<0.001	0.21	<0.001	0.11	<0.001	0.05	0.085	0.11	<0.001
AL (mm)	0.16	<0.001	0.22	<0.001	0.26	<0.001	-0.06	0.049	0.27	<0.001
RE (D)	-0.19	<0.001	-0.22	<0.001	-0.29	<0.001	0.07	0.016	-0.30	<0.001
IOP (mmHg)	0.07	0.026	-0.02	0.530	0.04	0.143	-0.05	0.126	0.03	0.357
Macular ChT (μm)	-0.17	<0.001	-0.30	<0.001	-0.29	<0.001	-0.09	0.003	-0.37	<0.001
PPA area (mm^2)	0.15	<0.001	0.18	<0.001	0.16	<0.001	0.05	0.099	0.23	<0.001
Tilt ratio	-0.42	<0.001	-0.12	<0.001	-0.28	<0.001	-0.12	< 0.001	-0.40	<0.001

MOSH, macular outward scleral height; AL, axial length; RE, refractive error; D, diopter; IOP, intraocular pressure; ChT, choroidal thickness; PPA, peripapillary atrophy

Supplementary Table 2. Partial Correlation Analysis between Axial Length and Macular Outward Scleral height (MOSH), after Adjusting for Sex in Different Groups

MOSH (μm)	Non-high myopia		High myopia		Age < 50		Age $\geq$ 50	
	r	p value	r	p value	r	p value	r	p value
Nasal	0.09	0.038	0.18	<0.001	-0.08	0.018	0.44	<0.001
Temporal	0.00	0.919	0.28	<0.001	0.08	0.029	0.37	<0.001
Superior	0.10	0.016	0.14	<0.001	0.15	<0.001	0.39	<0.001
Inferior	-0.16	<0.001	0.05	0.260	-0.11	0.001	0.00	0.953
Average	0.03	0.441	0.27	<0.001	0.04	0.314	0.46	<0.001

Supplementary Table 3. Multiple Regression Analysis of Factors Associated with Nasal and Average Macular Outward Scleral Height in All Subjects

Variables	Nasal MOSH			Average MOSH		
	B (95% CI)	p value	VIF	B (95% CI)	p value	VIF
Age (years)	−0.695 (−1.094 to −0.297)	0.001	1.234	0.513 (0.271 to 0.755)	<0.001	1.234
Sex (female)	12.429 (−1.485 to 26.343)	0.080	1.046	25.688 (17.235 to 34.140)	<0.001	1.046
AL (mm)	−0.771 (−5.440 to 3.899)	0.746	1.512	6.184 (3.348 to 9.021)	<0.001	1.512
IOP (mmHg)	2.480 (−0.036 to 4.997)	0.053	1.018	0.455 (−1.074 to 1.984)	0.559	1.018
PPA area (mm ²)	15.276 (6.516 to 24.036)	0.001	1.584	4.574 (−0.748 to 9.896)	0.092	1.584
Tilt ratio ≤ 0.8	73.906 (58.505 to 89.308)	<0.001	1.228	37.873 (28.516 to 47.229)	<0.001	1.228

AL, axial length; IOP, intraocular pressure; PPA, peripapillary atrophy; MOSH, macular outward scleral height; CI, confidence interval; VIF, variance inflation factor

Supplementary Table 4. Multivariate Logistic Regression Analysis of the Risk Factors Associated with the Presence of Posterior Staphyloma

	Odds ratio (95% confidence interval)	p value
Age (years)	1.086 (1.057 to 1.115)	<0.001
Sex (female)	2.510 (1.012 to 6.223)	0.047
AL (per 1 mm increase)	7.758 (4.517 to 13.326)	<0.001
MOSH-nasal (per 1 μ m increase)	1.003 (1.000 to 1.007)	0.068
MOSH-temporal (per 1 μ m increase)	0.999 (0.995 to 1.002)	0.467
MOSH-superior (per 1 μ m increase)	1.008 (1.004 to 1.012)	<0.001
MOSH-inferior (per 1 μ m increase)	1.006 (1.002 to 1.010)	0.009

AL, axial length; MOSH, macular outward scleral height