

Table(1) Groups of patients

group	(N)	Age	Spherical equivalent
Lowtomoderate myopia	60	29.03±9.39	-3.65 (1.69) -3.25 (-6.75;-0.87)
High myopia	30	29.2±7.08	-8.69 (1.99) -8.00 (-13.75;-5.85)
Myopic astigmatism	60	30.18±9.42	-3.65 (8.88) -1.37 (-62 : 1.75)
mixed	30	34.83±9.47	-0.09 (1.85) 0.5 (-6.75;2.5)
hypermeteropia	20	34.45±13.29	3.43 (1.89) 3.25 (1-6.87)
P value		0.03	0.0001

Table(2) show RMS of HAOs ,RMS of Total HOA, spherical aberrations ,coma and trefoil distribution of studied population

	RMS HAOs	RMSTHOAs	spherical aberrations	coma	trefoil
Group	Mean±SD Median(range)	Mean±SD Median(range)	Mean±SD Median(range)	Mean±SD Median(range)	Mean±SD Median(range)
Lowtomoderate myopia	0.42±0.17 0.41 (0.11-0.98)	2.31±0.86 2.2 (0.78-3.81)	0.08±0.07 0.07 (0.006-0.34)	0.08±0.08 0.07 (0.002-0.61)	0.009±0.04 0.009 (-0.1;0.13)
High myopia	0.42±0.21 0.37 (0.04-1.05)	3.97±1.80 4.05 (0.42-6.72)	0.09±0.04 0.08 (0.02-0.23)	0.09±0.04 0.09 (0.02-0.16)	0.007±0.04 0.0005 (-0.08;0.07)
Myopic astigmatism	0.37±0.16 0.35 (0.11-1)	1.80±0.90 1.61 (0.67-5.24)	0.08±0.05 0.07 (0.01-0.28)	0.09±0.06 0.08 (0.01-0.24)	-0.008±0.04 -0.008 (-0.10;0.08)
mixed	0.44±0.15 0.41 (0.19-0.9)	1.59±0.65 1.62 (0.66-3.03)	0.10±0.08 0.08 (0.02-0.29)	0.12±0.10 0.098 (0.04-0.58)	0.02±0.03 0.03 (-0.06;0.06)
hypermeteropia	0.44±0.17 0.41 (0.25-0.68)	2.79±1.57 2.71 (0.75-5.46)	0.09±0.05 0.08 (0.04-0.21)	0.07±0.04 0.08 (0.01-0.11)	0.004±0.05 -0.004 (-0.08;0.07)

Table (3) Correlation between spherical equivalent and HOAs

Group	RMS HOA	Coma	Trefoil z33	Spherical	RMS THOA
	Correlation coefficient P-value	Correlation coefficient P-value	Correlation coefficient P-value	Correlation coefficient P-value	Correlation coefficient P-value
Low-Moderate Myopia	-0.06 0.63	-0.07 0.60	-0.06 0.67	-0.03 0.83	-0.83 <0.0001
High Myopia	-0.19 0.32	-0.01 0.94	0.19 0.32	-0.06 0.74	-0.46 0.009
Myopic astigmatism	0.24 0.07	-0.07 0.58	0.14 0.28	0.32 0.01	-0.70 <0.0001
Mixed	-0.47 0.009	-0.08 0.67	0.30 0.11	0.31 0.10	0.35 0.054
Hypermetropia	0.52 0.02	-0.16 0.49	-0.07 0.77	-0.04 0.85	0.37 0.11
All group	0.06 0.43	-0.02 0.78	0.01 0.87	0.08 0.24	-0.45 <0.0001

