

**Table 1. Demographics of the Study Population**

	Normal	MGD
Number	20	20
Age (yr)	31	38.5
Gender (F/M)	13/7	14/6
Refractive error		
spherical equivalent (D) (mean±SD)	-2.81±2.06	-2.76±3.21
astigmatism (D) (mean±SD)	0.88±0.62	0.66±0.37

**Table 2. Distribution of Corneal Topographic Patterns**

Keratographic pattern	Normal	MGD	
Round	9 (22.5%)	12 (30%)	NS
Oval	11 (27.5%)	10 (25%)	NS
Symmetric bowei	10 (25.0%)	3 (7.5%)	p<0.05
Asymmetric bowei	6 (15.0%)	6 (15%)	NS
Kidney	1 (2.5%)	2 (5%)	NS
Irregular	3 (7.5%)	7 (17.5%)	NS
Total (eyes)	40	40	

NS: Non-significant.

Test paper was inserted into the patient lower conjunctiva sac after local anesthesia had been administered completely. After 5 min the tears wetted the strip of filter paper, and the data were revealed in millimeters.

Sheffer posterior comparison and proportion test were used for statistical analysis.

## RESULTS

Forty eyes of 20 MGD patients and 40 eyes of 20 normal subjects were the objects in this study. Demo-

**Table 4. Basic Schirmer's Test Results in Normal and MGD Patients**

	(mm)
Normal	8.64±6.02
Open meshwork	4±2.93
Wave	8.75±6.45
Amorphous	8.02±5.51
Color fringe	8.25±3.12

**Table 3. Surface Regularity Indices in Normal and MGD Patients**

	SRI	SAI
Normal (40 eyes)	0.43±0.26	0.21±0.15
Open meshwork (10 eyes)	0.71±0.43	0.44±0.3
Wave (14 eyes)	0.41±0.22	0.23±0.2
Amorphous (8 eyes)	0.42±0.26	0.27±0.18
Color fringe (8 eyes)	0.19±0.18	0.18±0.14

graphic data are shown in Table 1. There were no differences in age and gender factors between the 2 groups. Refractive status was also similar in the 2 groups. The distribution of corneal topographic patterns is given in Table 2. Compared with normal eyes, patients with MGD had lower percentage of symmetric bowei type pattern (25% in normal subjects vs. 7.5% in MGD patients,  $p < 0.05$ ). Although MGD eyes showed more of the irregular type (17.5%) than did normal eyes (7.5%), this did not reach a significantly different level.

In MGD patients, the lipid layer color fringe type had lower SRI ( $0.19 \pm 0.18$ ) and SAI ( $0.18 \pm 0.14$ )

**Table 5. NIBUT in Normal and MGD Patients**

	(Seconds)
Normal	22
Open meshwork	9
Wave	27
Amorphous	41
Color fringe	31