

Toris K Soft Lenses for Keratoconus

PURPOSE: To report our clinical outcome with Toris K soft contact lenses in patients with keratoconus.

MATERIALS AND METHODS: Fourteen eyes of 8 patients with keratoconus were fitted Toris K contact lens (CL) in the Cornea Department at the Ümraniye Training and Research Hospital between October 2011 and December 2011. Main outcome measures were patient demographics, prefitting refraction, best spectacle-corrected visual acuity, corneal topography, CL parameters and vision with final CL.

RESULTS: Fourteen eyes (of 8 patients) with keratoconus were fitted with Toris K soft contact lenses. The group included 2 male, 6 female patients and the mean age was 27.9 ± 7.8 years. The mean spherical refractive power was -2.32 ± 2.24 diopter (range: +0.50 to -6.37 diopter) and mean cylinder was -4.19 ± 1.58 diopter (range: -1.25 to -6.75 diopter). The mean BC of the lens was 7.6 ± 0.21 mm, and the mean diameter was 13.7 ± 0.25 mm. Mean best corrected visual acuity were 0.31 ± 0.21 logMAR (min 0.09 logMAR-max 0.8 logMAR) with spectacles and 0.06 ± 0.07 logMAR (min 0 logMAR-max 0.22 logMAR) with contact lenses. All patients were successfully fitted with the CL. There was a significant increase in visual acuity with Toris K lens compared with best-corrected spectacle visual acuity ($p=0.001$).

CONCLUSION: Prominent increase in visual acuity can be obtained by Toris K soft contact lenses in patients with keratoconus. The quality and quantity of vision is far better than with spectacle lens correction.

Key Words: Keratoconus, contact lenses, toris K.