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Asymmetric intracorneal ring segments in the treatment of snowman phenotype keratoconus

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Abstract

Objective. - To evaluate refractive, aberrometric, topographic, and topometric outcomes of asymmetric intracorneal ring segment (ICRS) implantation in snowman phenotype (asymmetric bow-tie) keratoconus. Methods. - This retrospective, interventional study included eyes with snowman phenotype keratoconus. Two asymmetric ICRSs (Keraring AS) were implanted after femtosecond laser -assisted tunnel formation. Visual, refractive, aberrometric, topographic, and topometric changes after asymmetric ICRS implantation were evaluated with a mean follow-up of 11 months (6-24 months). Main results. - Seventy-one eyes were analyzed in the study. Keraring AS implantation cor-rected refractive errors significantly. The mean spherical error decreased from -5.06 +/- 4.23 D to -1.62 +/- 3.45 D (P = 0.001), and the mean cylindrical error decreased from -5.43 +/- 2.48 D to -2.44 +/- 1.49 D (P = 0.001). Uncorrected distance visual acuity improved from 0.98 +/- 0.80 to 0.46 +/- 0.46 Log MAR (P = 0.001), and corrected distance visual acuity improved from 0.58 +/- 0.56 to 0.17 +/- 0.39 Log MAR (P = 0.001). Keratometry (K) maximum, K1, K2, K mean, astigmatism, and corneal asphericity (Q-value) showed a significant decrease (P = 0.001). Vertical coma aberration decreased significantly from -3.31 +/- 2.12 mu m to -2.56 +/- 1.94 mu m (P = 0.001). All topometric indices of corneal irregularities were significantly reduced postoperatively (P = 0.001).

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