Estimation of Femto-LASIK Operation Results With Femtosecond Laser Microkeratome After Radial Keratotomy

NO FINANCIAL INTEREST

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Background

Earlier we have performed LASIK with Moria 3E mechanical microkeratome in the eyes with K values less than 39 D after radial keratotomy for correction of refractive errors.

Aim

Estimation of FemtoLASIK operation results with MEL-80 excimer laser and VisuMax femtosecond laser (Carl Zeiss Meditec) in the eyes with “flat” cornea (K values less than 39 D).

Methods

4 patients (5 eyes) During FemtoLASIK a 100 μm corneal flap with a 12 o’clock hinge was formed with VisuMax femtosecond laser (Carl Zeiss Meditec).

Corneal ablation was performed with MEL-80 excimer laser (Carl Zeiss Meditec). Optical zone diameter was 6 mm. Post-op follow-up was from 3 to 6 months.
Cornea at the 1st day after FemtoLASIK after RKT

Results

UCVA

BCVA

REFRACTION CHANGES

Conclusions

1. FemtoLASIK in the eyes after radial keratotomy requires accuracy at the step of corneal flap separation from the stromal bed

2. FemtoLASIK is an effective and safe technology for correction of refractive errors in the eyes after radial keratotomy