

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



NO FINANCIAL INTEREST

O.A. Kostin, S.V. Rebrikov, A.I. Ovchinnikov, A.A. Stepanov

Ekaterinburg Eye Microsurgery Center

Ekaterinburg, Russia



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

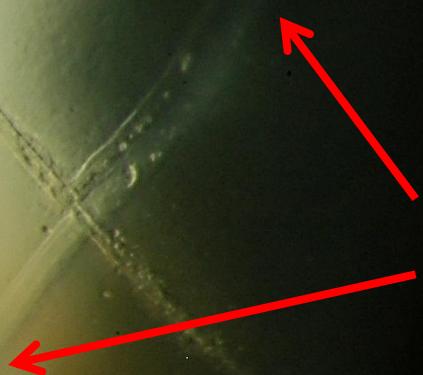


Cornea at the 1st day after FemtoLASIK after RKT

Edge of the corneal flap



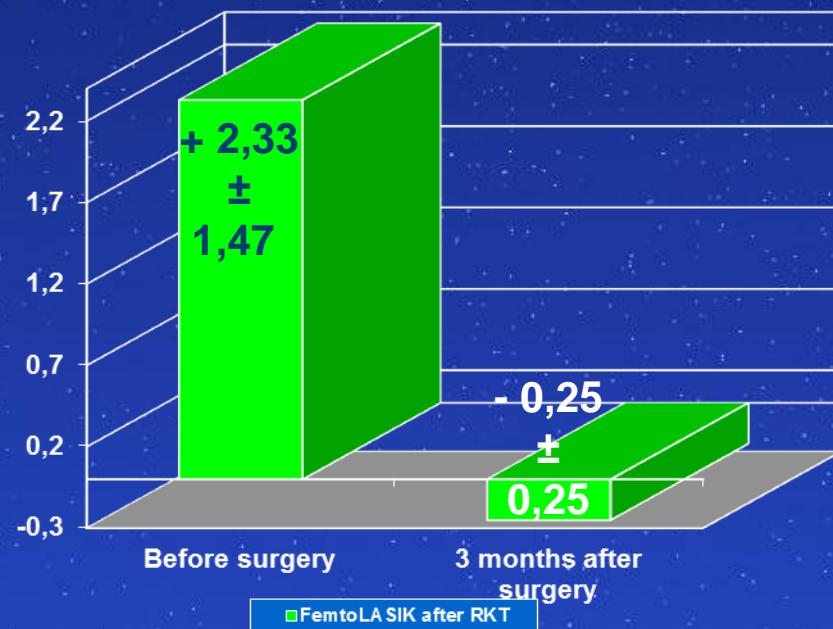
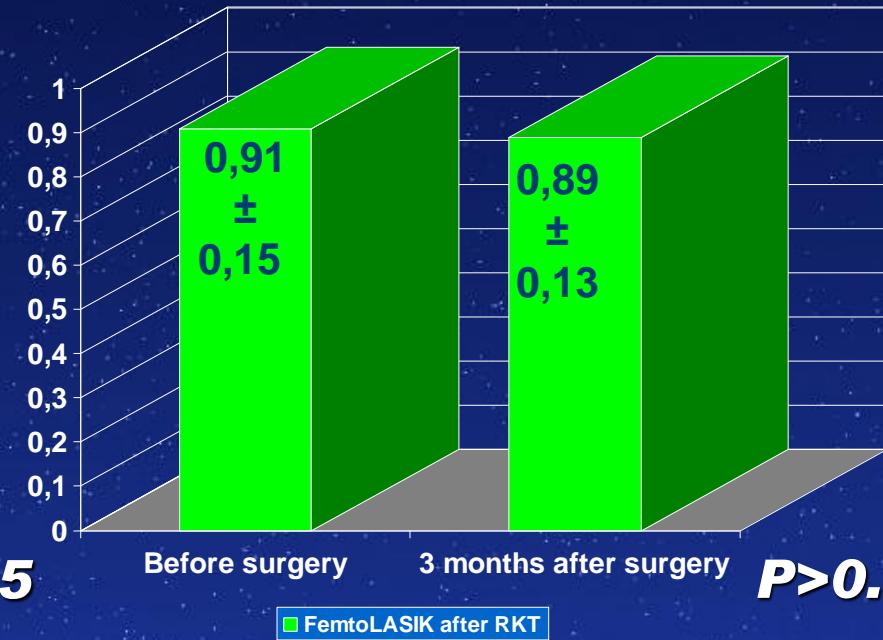
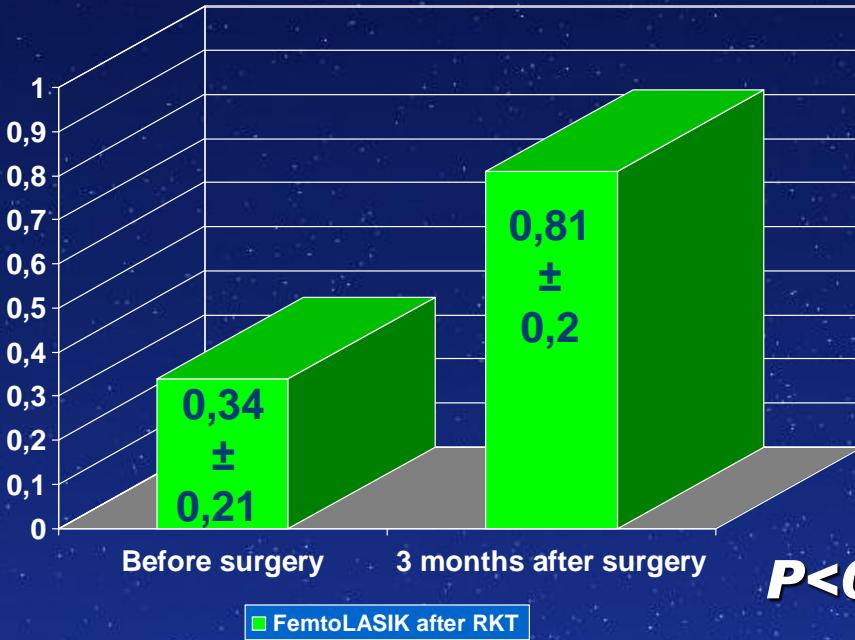
Corneal scar after RKT



UCVA

Results

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**