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In contrast to LASIK, ReLEx - SMILE has a very small corneal incision of 2-3 mm. Postoperative complications like epithelial ingrowth or flap striae do therefore not happen after ReLEx - SMILE. The risk for dry eyes or keratectasia is also lower after ReLEx - SMILE. The postoperative refractive results show 95% of the patients within target refraction of ± 0.5 D and a low regression of 0.07D during a follow-up period of 5 years.

ReLEx - SMILE can only be performed at the moment with the Visumax from Zeiss company, but other companies like Wavelight, Bausch & Lomb or Schwind are trying hard to catch up in this technology of refractive surgery of the future.

Keywords: corneal refractive surgery; ReLex-Smile; femtolaser.

NOVEL APPROACHES OF LASER CORNEAL SURGERY FOR PRESBYOPIA CORRECTION

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The author reviewing the current available corneal procedures and the recent advances of presbyopia binocular multifocal correction - no monovision with laser in situ keratomileusis (LASIK) - no knife procedure, who is carried out with two Lasers system - LDVTMFemto second CristaLine for the corneal flap creation and other Excimer laser system for a new aspheric SupraCore procedure on the cornea.

Supracor multifocal treatment was applied on 240 eyes of 118 patients; 138 cases has hyperopia spherical equivalent (SE) +1,35 D SD 0.35 and 71 cases myopia correction SE -3,75 Dsph SD 0.15. The first postoperative months small fluctuation of distant and near vision was present in 38% of patients. After 6 months' stabilization was achieved in 90% of cases. Uncorrected visual acuity (UCVA) was some to preoperative best corrected visual acuity (BCVA). 8 % patients have reoperation and one year after treatment 100% of patients were satisfied to see well without glasses at all distances.

Keywords: presbyopia; refractive surgery; femtosecond laser; laser in situ keratomileusis.