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

Slobodanka Latinović

Special Eye Hospital “Vidar Orasis Swiss”

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 - LDVTM Femto 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 D sph 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.