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Refractive lens exchange with implantation of trifocal or trifocal toric intraocular lens

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Subjects & Methods: Ninety five patients (204 eyes) underwent bilateral trifocal IOL (AT LISA tri 839MP, Zeiss, Germany) implantation after clear lens extraction. Patients were presbyopes; 95 hypermetropes and 7 myopes between 46 and 68 years. Other 20 eyes with hyperopic or myopic astigmatism received trifocal toric IOL (AT LISA tritoric 939 MP, Zeiss, Germany). Uncorrected distance visual acuity (UCDVA), uncorrected intermediate visual acuity at 80 cm (UCIVA), uncorrected near visual acuity (UCNVA), uncorrected distance visual acuity under 10% contrast level, visual disturbances and subjective satisfaction were measured and compared to Bifocal group (AT LISA 809MP; 42 pts, 84 eyes). Follow up was at least 6 months, up to two years.

Results: All patients achieved monocular UCDVA better than 0.8, (76.9% eyes 1.0), monocular UCIVA better than 0.63 was achieved in 96.1% patients (37.5% patients 1.0). All patients could read J2 and better; 72.1% of patients could read J1. UCDVA at 10% contrast level was also excellent; 62.5% of patients could read 1.0. Halo and glare were reported in 9.6% and 7.3% of cases, respectively. There was no need for LASIK/PRK enhancement. Spherical equivalent was equal or less than 0.5D in 97% of trifocal eyes and within the range of +1.00 to -1.00 D of astigmatism in all trifocal toriceyes.

Conclusions: Refractive lens exchange with implantation of trifocal or trifocal toric IOL enables good vision at all distances and spectacle independence. It is excellent choice for younger, active presbyopes in need of good intermediate vision.

Biography

Iva Dekaris has completed her PhD from University in Zagreb after Postdoctoral Fellowship at Harvard Medical School, Schepens Eye Research Institute. She is currently a Medical Director at Eye Hospital "Svjetlost", Professor of Ophthalmology at Universities of Zagreb and Rijeka and Associate-member of the Croatian Academy of Sciences and Arts. She has published 47 papers in CC journals. She works as PI for project "Mechanisms of corneal graft rejection" and has been serving as an Editorial Board Member of 3 and a reviewer for 6 reputed journals. She has an overall experience of over 20,000 surgeries mainly cataract surgery, corneal transplants, and refractive lens exchange.

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