jeopardizing the safety of the procedure. It is possible to do precise corneal relaxing incisions to correct astigmatism.

*Keywords*: femtosecond laser; cataract surgery; refractive surgery.

## ADD-ON LENSES IN THE TREATMENT OF RESIDUAL REFRACTIVE ERROR

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Add-on lenses are used in patients who had already underwent cataract surgery with monofocal intraocular lens (IOL) implantation (pseudophakic eyes!) but need an improvement of their vison in two ways: a) due to the residual refractive error after cataract surgery, which can be spherical or astigmatism, patients must wear glasses for clear distance vision, or b) would like to be independent of glasses for near and thus need an implantation of multifocal add-on lens over the already existing monofocal IOL. The implantation is a simple atraumatic procedure carried out under topical anaesthesia through a sclero-corneal incision. In case of astigmatism correction, the add-on IOL is oriented along the steepest corneal meridian with the aid of corneal topographical monitoring and it provides lasting correction of the residual astigmatism. In case of spherical refractive error in pseudophakic eyes, addon lenses can equally correct the spherical error. Add-on multifocal lens implant can restore near vision in a similar manner to a multifocal lens implanted in the first instance at the time of cataract surgery. This allows patients to 'upgrade' the function of their monofocal lens at a later date to enable them vision comparable to patients which have had a multifocal lens implant as first procedure. Importantly, the procedure of add-on lenses implantation is a reversible procedure so the lens can be easily explanted for any possible reason (e.g. patient cannot get used to multifocality). The author presented her personal experience with Add-on lens implantation for both previously mentioned indications.

*Keywords*: add-on lenses; residual refractive error; postoperative astigmatism; multifocal intraocular lenses.