Additional protection for the retina with violet light filter

External factors such as natural sunlight can be damaging to your visual acuity. A yellow LENTIS® M plus toric with violet light filtering technology will filter the damaging UV rays from sunlight and thus protecting your eyes. The eye’s over exposure to sunlight is one of the factors thought to lead to an increased risk of AMD (age-related macular degeneration). Choosing a LENTIS® M plus toric IOL with violet light filter can provide you with optimum visual acuity and protection for your eyes.

The LENTIS® M plus toric IOL is specifically designed to improve your contrast sensitivity ensuring even in poor light conditions you have good visual acuity and distance vision.

What LENTIS® M plus toric has to offer:

- The LENTIS® M plus toric gives you spectacle independency for your everyday activities such as reading, working on the computer etc. as well as for active leisure time activities like biking or other fitness and sports training.
- The LENTIS® M plus toric uses enhanced manufacturing technologies reducing irritating stray light, glare effects and halos to a harmless minimum. This process reduces the loss of contrast sensitivity making driving during the day and especially at night highly improved.
- Customised correction of astigmatism – your LENTIS® M plus toric is individually manufactured to provide you with a perfect visual experience without any restrictions.
- The LENTIS® M plus toric lens guarantees high-contrast and colour intensive visual perception of your environment.
- The LENTIS® M plus toric IOL stands out for its well-proven design and its well tested material and for its excellent biocompatibility.

Stamp of doctor’s practice:

Information on cataracts and refractive surgery

A service provided by:

Oculentis GmbH | competency in intraocular surgery | www.oculentis.com

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Premium intraocular lenses for the treatment of astigmatism and presbyopia
Dear patient,

Today, modern eye surgery can fulfill your understandable desire to enjoy everyday life again without the support from spectacles, hence hassle free. Besides the traditional standard intracocular lenses (IOL) your eye doctor also offers "IOL with extra benefits." Thanks to their special optics design, both patients suffering from cataract or presbyopia and even patients with astigmatism will benefit from them.

This leaflet shall inform you how such a multifocal toric artificial lens can correct your vision and how you may benefit from refractive and cataract surgery.

Basic information on cataracts is provided in the leaflet. "See clear – live well". Should you still have some questions, please, ask your eye specialist.

Presbyopia and its causes

It is the natural human lens alone that manages accommodation of the eye, i.e. the process to change the point of focus from a near object to a distant object. The natural lens consists of a flexible soft mass and its curvature is being controlled by the activity of very tiny muscles. Age-related farsightedness – or presbyopia – is characterised by a gradual loss of flexibility of the natural lens progressing with age. The accommodation ability of the eye will be reduced continuously as we age.

Presbyopia and its consequences

The hardening of the natural lens will lead to farsightedness over the years. Everyday activities – such as reading or working on the computer – will become more and more taxing on the eye. It may become necessary to hold the newspaper or the book further and further away from the eye in order to see clearly when reading.

Astigmatism and its causes

In patients with astigmatism the cornea of the eye is not evenly "spherically" curved but it is curved more steeply in one direction than in the other. There are two types of astigmatism: genetically inherited "regular" and "irregular" astigmatism. The latter can be caused by eye diseases such as corneal inflammation or cataract.

Astigmatism and its consequences

The deformed cornea leads to irregularities in the refractive power of your eye. This means when you are focusing objects, dots will become rods. Therefore astigmatism is sometimes called "rod vision": for the onlooker images and objects will appear more or less "distorted" and it is difficult to see fine detail. In some cases vertical lines and objects such as walls may appear to the patient to be leaning over. In general the vision of the environment is blurred.

Spectacles and contact lenses: the best solutions?

Traditionally, these two types of defective vision (presbyopia and astigmatism) are treated by wearing glasses and/or contact lenses. However, for most people permanent use of spectacles or contact lenses will be accompanied by a great impact on quality of life as it means a daily hassle with this vision impairment and consequently a significant restriction in everyday life. In particular, active people who for instance do a lot of sports and exercise activities or those who frequently have to raise or lower their gaze while doing their job often get frustrated with their spectacles and feel they are bothersome and disruptive.

Independence from spectacles* for a better quality of life:

Modern eye surgery makes it possible to correct age-related farsightedness and astigmatism at the same time during one single gentle routine intervention. By implantation of a toric multifocal artificial lens – such as the LENTIS TMA - a small incision IOL – optimum correction of age-related farsightedness can be achieved and the patients will be provided again with a sharp near and distance vision. The optical distortion of objects in the vicinity caused by an irregular curved cornea can be corrected almost perfectly by this modern artificial lens. Therefor precise and stable correction of astigmatism will be obtained by this refractive surgical intervention.

* Clinical studies have demonstrated that a very high degree of spectacle independence has been achieved in more than 90% of all patients treated with a multifocal-toric lens in both eyes.