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The Best Vision Newsletter

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## Next Generation IOLs

Cataract surgery has advanced into the realm of refractive surgery with the advent of topical anesthetic, no-stitch, rapid visual restoration techniques and other refinements that permit better prediction of post-operative refractive results. Toric and accommodative intraocular lenses (IOLs) offer new and exciting methods that enhance the refractive benefit of cataract surgery by improving uncorrected visual acuity.

The FDA approved Staar Surgical Toric IOL, provides an opportunity to reduce pre-existing astigmatism without additional incisional surgery. Studies of this plate-haptic lens have demonstrated that it is capable of neutralizing between 1.5 D and 2.5 D of pre-existing cylinder. Patients implanted with the toric IOL were 3 times as likely to have a post-op refractive cylinder of 0.5 D or less than were control patients implanted with non-toric IOLs.

Promising new research indicates that accommodative IOLs may make it possible to partially restore accommodation following cataract surgery. Currently in US FDA clinical trials, the CrystaLens Model AT-45 accommodative IOL (C&C Vision) is hinged at the junction of the plate haptic, providing articulation where the IOL can vault forward and backward during attempted accommodation. The theoretical mechanism of action is based on the concept that redistribution of the ciliary body mass during accommodation results in increased vitreous pressure, thereby forcing the optic forward and increasing lens effectivity. Results of the current FDA trials indicate most bilaterally implanted patients achieved 2.5 D or greater amplitude of accommodation and over 90% can see 20/40 or better without correction distance and near. This lens can be implanted through a small cataract incision

Next generation IOLs will help further refine the refractive outcomes of our biggest refractive surgical population...our cataract patients.

**Erdey Eye Group**  
5965 East Broad Street  
Suite 490  
Columbus OH 43213

**Voice: 614.863.3937**  
Fax: 614.863.5010

**Richard A Erdey MD**  
Medical Director

**Gregory D Searcy MD**  
Ophthalmologist

**Patrick A Janson OD**  
Clinical Director

**Stacie L Errington OD**  
Director of Education

**Kasey J Eppley OD**  
Refractive Team Director

**Matthew U Neal OD**  
Optometric Fellow

**Pamela J Andrews**  
Administrator

We dedicate ourselves to enhancing the quality of life for every individual we treat by helping each to see his or her best, and by preserving our patients' vision and eye health throughout life.

**Want more information on toric or accommodative IOLs?  
Questions about cataract/refractive surgery  
comanagement?**

Contact: **Patrick Janson, OD**  
**pjanson@erdeyeyegroup.com**  
**614.863.3937 (EYES)**

**THANK YOU FOR YOUR SUPPORT!**

Email Address: [bestvision@icanseeclearly.com](mailto:bestvision@icanseeclearly.com)