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Aspheric Intraocular Lens Selection The

Aspheric lens surfaces have become an attractive feature for new IOLs over the

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last decade, since ophthalmologists began applying the lessons learned from laser vision correction to cataract surgery. These lenses are designed to eliminate the positive spherical aberration added by traditional IOLs to the pseudophakic visual axis.

How to Choose an Aspheric

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Three aspheric IOLs are currently FDA approved: the SofPort LI61AO (Bausch & Lomb), the AcrySof IQ (Alcon Laboratories, Inc.), and the Tecnis Z9000 (Advanced Medical Optics, Inc.). All three lenses have different strategies for compensating for spherical aberration. The SofPort lens is a multi-piece lens

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Patient Selection Strategies For Aspheric IOLs

Aspheric intraocular lens selection: the evolution of refractive cataract surgery.
Packer, Mark; Fine, I Howard; Hoffman, Richard S. Current Opinion in Ophthalmology: January 2008 - Volume

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19 - Issue 1 - p 1-4. doi:

10.1097/ICU.0b013e3282f2d791.

Cataract surgery and lens implantation:
Edited by Mark Packer, Drs Fine,
Hoffman & Packer ...

**Aspheric intraocular lens selection:
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Aspheric intraocular lens selection

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Packer et al. 3 Figure 1 Chart for customized selection of aspheric intraocular lenses Based on a targeted final postoperative spherical aberration of zero, the chart shows the recommended aspheric lens for a range of preoperative corneal spherical aberration measurements at the 6mm zone and the theoretical frequency withw

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hich these values occur in a broad section of the population.

Aspheric intraocular lens selection: the evolution of ...

PURPOSE: To determine the feasibility of selectively targeting zero total postoperative spherical aberration by selecting the best fit aspheric intraocular

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lens (IOL) based on preoperative topographically derived corneal spherical aberration.

Aspheric intraocular lens selection based on corneal ...

Popular aspheric IOLs that are FDA-approved and available in the U.S. include: Tecnis (Johnson & Johnson

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Vision), AcrySof IQ (Alcon), and enVista (Bausch + Lomb). Toric IOLs. Toric IOLs are premium intraocular lenses that correct astigmatism as well as nearsightedness or farsightedness.

**Intraocular Cataract Lenses (IOLs):
Premium | Aspheric | Toric**
customized selection of aspheric

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intraocular lens implantation Qing-Qing Tan^{1,2†}, Jia Lin^{1,2†}, Jing Tian^{1,2}, Xuan Liao^{1,2*} and Chang-Jun Lan^{1,2*} Abstract Background: To compare the postoperative optical quality in eyes with customized selection and random selection of aspheric intraocular lens (IOL) implantation.

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Objective optical quality in eyes with customized ...

INDICATIONS: The AcrySof® IQ aspheric intraocular lens (“AcrySof IQ”) is intended for the replacement of the human lens to achieve visual correction of aphakia in adult patients following cataract surgery. This lens is intended for placement in the capsular bag.

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Alcon Cataract IOL Options for Eye Care Professionals ...

More than 25 million Americans have cataracts — clouding of the eye's lens with age—and nearly 4 million Americans undergo cataract surgery each year to restore their vision.. During cataract surgery, the natural clouded

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lens is replaced with an artificial lens called an intraocular lens (IOL). What you may not realize is that there's a variety of IOL types to choose from — all with ...

Choosing an Artificial Lens for Cataract Surgery ...

Unfortunately, standard aphakic intraocular lenses increase the positive

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spherical aberration of the visual system, which has already been increased by the aging of the crystalline lens. Implanting an aspheric IOL avoids increasing this aberration—and an IOL with negative spherical aberration may even return the optical system to zero spherical aberration by offsetting the cornea's slight positive aberration.

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The Pluses and Minuses Of Aspheric IOLs

Background: To compare the postoperative optical quality in eyes with customized selection and random selection of aspheric intraocular lens (IOL) implantation. Methods: A prospective, nonrandomized study was

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implemented in adult cataract patients who underwent unilateral phacoemulsification with aspheric IOL implantation. Patients were allocated into two treatment groups: a customized group and a control group.

Objective optical quality in eyes with customized ...

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Premium intraocular lens technology. Premium IOL technology refers to IOLs biomaterial, aspheric design, and special refractive properties. Cataract surgery is one of the oldest surgical procedures known, first documented in the fifth century BC.¹⁰ However, the first implantation of poly-methyl-methacrylate (PMMA) IOL was performed

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on 29th of November 1949 by Harold
Ridley.¹¹ The modern era of ...

Premium intraocular lenses: The past, present and future

In the customized group, the aspheric
IOL selection was based on the corneal
spherical aberration to enable the
postoperative target ocular spherical

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aberration closest to zero; in the control group, the aspheric IOLs were chosen using a random strategy.

Objective optical quality in eyes with customized ...

The PCA algorithm for the selection of appropriate cylinder power and axis of implantation was not assessed in a

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prospective clinical study and may yield results different from those in the TECNIS® Toric intraocular lens labeling. Please refer to the Johnson & Johnson Surgical Vision Toric Calculator user manual for more information.

TECNIS® Toric II IOL | Johnson & Johnson Vision

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The visual acuity of aspheric intraocular lenses is significantly better than spherical intraocular lenses above 3 mm of pupil opening as shown by a modulation transfer function (MTF) analysis...

US4504982A - Aspheric intraocular lens - Google Patents

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The 2016 European Society of Cataract and Refractive Surgery Clinical Survey revealed that 43% of cataract procedures are targeted for monovision. 6 The “ideal” intraocular lens (IOL) should restore the patients' vision without complications or visual compromises at all distances. 7 With the use of different IOLs, emmetropia can be

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Premium intraocular lenses: The past, present and future ...

Aspheric Intraocular Lenses (IOLs) If you have cataracts that obscure your vision, you are likely to be recommended for cataract surgery. This process removes the natural lens of your eye and replaces

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it with an artificial lens, called an
intraocular lens (IOL).

Aspheric Lenses: Costs & Comparisons (+ Pros & Cons) | NVISION

The options for pseudophakic correction
of presbyopia have historically been
monofocal or multifocal intraocular

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lenses (IOLs). 1,2 Each has strengths and weaknesses. Monofocal IOLs can provide patients with a full range of vision through monovision; however, there might be some loss of depth perception and these IOLs do not provide optimum visual acuity at intermediate distances. 3-5 ...

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Extended depth-of-focus technology in intraocular lenses ...

IPure is the first and only fully pre-loaded aspheric monofocal Intraocular Lens (IOL) available in both a 1-Piece and 3-Piece design to treat patients undergoing cataract surgery in the US. IPure optics provides high contrast and high quality vision in a seamless,

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predictable, and efficient preloaded IOL
delivery system

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