

## Aspheric Intraocular Lens Selection The Evolution Of

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Custom selection of aspheric intraocular lens in eyes with ...  
Intraocular lenses (IOLs) are medical devices that are implanted inside the eye to replace the eye's natural lens when it is removed during cataract surgery. IOLs also are used for a type of vision correction surgery called refractive lens exchange.. Before the use of intraocular lenses, if you had cataracts removed, you had to wear very thick glasses or special contact lenses in order to see ...

### The Pluses and Minuses Of Aspheric IOLs

An intraocular lens (24) for placement into the anterior chamber of a human eye having an optic (22) with a central axis (33), an anterior surface (27) and a posterior surface (26). At least one of the surfaces is a rotationally symmetric shaped surface with a center of curvature on the central axis and an 10 aspheric portion (35) formed in a peripheral area of the spherically shaped surface.

### Aspheric Intraocular Lens Selection The

Dr. Pepose pointed to a large, contralateral-eye Swedish study that compared the zero-impact Akreos Adapt aspheric lens by Bausch + Lomb with AMO's negatively aspheric Tecnis IOL in 80 patients. Tecnis eyes had lower totals of higher-order aberrations, and Akreos eyes had greater depth of field.

### Objective optical quality in eyes with customized ...

The lens is made of a photoreactive silicone that allows optical changes to be induced postoperatively. 21. 2. Eyhance monofocal IOL (Johnson & Johnson Vision). This lens aims to target the monofocal market with a mild extension toward intermediate vision using an aspheric lens design and broader defocus curve rather than a diffractive design.

### US4504982A - Aspheric intraocular lens - Google Patents

Unfortunately, standard aphakic intraocular lenses increase the positive 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 ...

### Objective optical quality in eyes with customized ...

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

### Patient Selection Strategies For Aspheric IOLs

Aspheric intraocular lens selection: the evolution of refractive cataract surgery Mark Packer, I. Howard Fine and Richard S. Hoffman Oregon Health & Science University, Eugene, Oregon, USA Correspondence to Mark Packer, Clinical Associate Professor, Oregon Health & Science University, 1550 Oak Street, Suite 5, Eugene, OR 97401, USA

### Picking a Premium IOL For Every Patient

1. Introduction. Intraocular lenses (IOLs) are used for replacing the crystalline lens of the human eye in cataract surgery. Their design has evolved to correct optical aberrations, specifically spherical aberration, partly as a result of the development of ocular wavefront technology in recent years.

### Objective optical quality in eyes with customized ...

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

implantation.

How to Choose an Aspheric Intraocular Lens - American ...

Additionally, an aspheric lens has been shown to provide patients with increased functional vision in night driving conditions compared with a traditional spherical IOL. 2 In a randomized, double-masked study, 29 patients were implanted with the Tecnis IOL in one eye and the AcrySof SA60AT spherical IOL in the fellow eye.

Intraocular Cataract Lenses (IOLs): Premium | Aspheric | Toric

customising aspheric IOL selection and presented initial study results from a small number of eyes that demonstrated the feasibility of such an approach. "Aspheric IOLs were developed to mimic the situation of the youthful eye where the negative spherical aberration in the crystalline lens compensates for positive spherical aberration in the ...

Aspheric intraocular lens selection: The evolution of ...

Aspheric intraocular lens selection based on corneal wavefront. Coronavirus: Find the latest articles and preprints ... the feasibility of selectively targeting zero total postoperative spherical aberration by selecting the best fit aspheric intraocular lens (IOL) ...

Aspheric intraocular lens selection: the evolution of ...

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Aspheric intraocular lens selection: the evolution of ...

Aspheric intraocular lenses (IOLs) have been designed to compensate for the inherent positive spherical aberration of the cornea.<sup>1, 2</sup> In normal un-operated corneas, the corneal spherical aberration has been estimated to average +0.28  $\mu$ m (for a 6.0 mm pupil).<sup>3</sup> In eyes after myopic corneal ablation, 4th-order spherical aberration has been shown to increase in the positive direction in microns ...

Customised aspheric IOL selection new step Cataract in ...

The intraocular lens (IOL) selection process for patients requires a complex and objective assessment of patient-specific ocular characteristics, including the quality and quantity of corneal astigmatism, health of the ocular surface, and other ocular comorbidities.

Matching the Patient to the Intraocular Lens: Preoperative ...

Further, the possibility of an aspheric intraocular lens is mentioned by M. Jalie in an article entitled The Design of Intra-Ocular Lenses, British Journal of Physiological Optics, Vol. 32, Pages 1-22, 1978 and in an article entitled Designing A New Intra-Ocular Lens, The Ophthalmic Optician, Apr. 28, 1979 but it is suggested that the uncertainty inherent in any attempt to duplicate the ...

Aspheric intraocular lens selection based on corneal ...

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 19 - Issue 1 - p 1-4. doi: 10.1097/ICU.0b013e3282f2d791. Cataract surgery and ...

Aberration Correction with Aspheric Intraocular Lenses ...

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 implemented in adult cataract patients who underwent unilateral phacoemulsification with aspheric IOL implantation.

WO2004089252A2 - Aspheric intraocular lens - Google Patents

The shape of the normal human cornea induces positive spherical aberration (SA) which causes image blur. In the young phakic eye, the crystalline lens compensates for a certain amount of this corneal aberration. However, the compensation slowly decreases with the aging lens and is fully lost after cataract extraction and implantation of a standard intraocular lens (IOL).

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