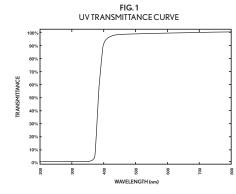
BAUSCH+LOMB Akreos_® AO

Micro Incision Lens

DEVICE DESCRIPTION

Akreos ultraviolet absorbing posterior chamber intraocular lenses $manufactured \ by \ Bausch \ \& \ Lomb \ Incorporated \ are \ one-piece \ optical \ implar for the replacement of the human \ crystalline \ lens \ in the \ visual \ correction \ of$ aphakia. The Akreos family of lenses includes the Akreos Advanced Optics Aspheric Lens (Model AO60) and the Akreos AO Micro Incision Lens

The Akreos AO Micro Incision Lens (Model MI60L) has the same prolate aspheric surfaces as the Akreos Advanced Optics Aspheric Lens (Model AO60). For information on the clinical study that was conducted to ssess the effects of the added aspheric surfaces see CLINICAL TRIAL ON AKREOS ASPHERIC MODEL AO60.

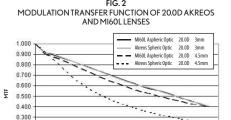


PHYSICAL CHARACTERISTICS

UV-absorbing hydrophilic acrylic Not less than 90% at 700nm UV(362) for +20.0 diopter IOL. Refer to FIG. 1 Specific Gravity: 1.21g/cm³
Index of Refraction: 1.459 when lens wet at 20°C

1.458 when in the eye at 35°C The labeled dioptric power of the lens is in aqueous O through 9 diopters in 1.0D increments 10 through 30 diopters in 0.5D increments Bioconvex Aspheric Configuration: Bioconver Optic Diameter: 6.0mm Haptic Angulation: 10 degrees
Overall Length: 0-15D 11.0mm Overall Length:

15.5-22D 10.7mm 22.5-30D10.5mm The Akreos AO Micro Incision Lens (Model MI60L) has prolate aspheric surfaces and is designed to be free of spherical aberration. The image quality of the Akreos AO Micro Incision Lens (Model MI60L) (i.e. modulation transfer function) is illustrated in FIG. 2.



NOTE: The image quality of Akreos IOLs were characterized by measuring sfer function (MTF) in a model eve described in ISO 11979-2:1999 through 3-mm and 4.5mm on the lens apertures.

0 20 40 60 80 100 120 140

MODE OF ACTION

functions as a refracting medium to replace the natural lens in the visual correction of aphakia.

Akreos posterior ch

the visual correction of aphakia in adult patients where a cataractous lens has been removed by phacoemulsification. The lens is intended for placement in the

cataract, retinal detachment, atrophy of the iris, microphthalmia, developing chronic eye infections, endothelial corneal dystrophy, perioperative complication (such as vitreous loss, hemorrhage...), foreseeable postoperative complications. WARNINGS

- B. Patients in whom the intraocular lens may affect the ability to observe, liagnose, or treat posterior segment diseases.
- potential for complications (e.g., persistent bleeding, significant iris damage, uncontrolled positive pressure, or significant vitreous prolapse or loss). D. A distorted eye due to previous trauma or developmental defect in which
- E. Circumstances that would result in damage to the endothelium during
- F. Suspected microbial infectio
- G. Children under the age of two (2) years are not suitable candidates for
- H. Patients in whom neither the posterior capsule nor zonules are intact
- ance the clinical study for the Akrees intradocular lens was conducted with the lens being implanted in the capsular bag only, there are insufficient clinical data to demonstrate its safety and efficacy for placement in the ciliary sulcus.
- small as possible. There is an increased risk of lens dislocation and/or secondary surgical reintervention with early or large capsulotomies.
- eparations at the optic/haptic interface.
- 6 To avoid the creation of permanent forceps marks in the central optic zone
- PRECAUTIONS
- 2. Do not store the IOL package in direct sunlight or at temperatures below freezing (<0°C). Store at room temperature. Avoid high temperatures (>45°C).
- $4. \ \ Do \ not \ re-use \ the \ IOL. \ It \ is \ intended \ for \ permanent \ implantation. \ If \ explanted$ sterility and proper function cannot be assured. 5. Do not soak or rinse lenses in solutions other than balanced salt solution or
- 6. A high level of surgical skill is required for intraocular lens implantation. A surgeon should have observed and/or assisted in numerous surgical
- 7. As with any surgical procedure, there is risk involved. Potential adverse events and complications accompanying cataract or implant surgery may include, but are not limited to the following: corneal endothelial damage, infection edema, pupillary block, cyclitic membrane, iris prolapse, hypopyon, transient or persistent glaucoma and secondary surgical intervention. Secondary surgical interventions include, but are not limited to, lens repositioning, lens

rior chamber of the eve. the Akreos intraocular lens

INDICATIONS

CONTRAINDICATIONS

Implantation is not advisable when the IOL may aggravate an existing condition interfere with the diagnosis or the treatment of a pathology, or present a risk to the sight of the patient. These conditions are uncontrolled glaucoma, rubeotic

- 1. Physicians considering lens implantation under any of the following
- circumstances should weigh the potential risk/benefit ratio: A. Recurrent severe anterior or posterior segment inflammation or uveitis
- C. Surgical difficulties at the time of cataract extraction that might increase the
- appropriate support of the IOL is not possible.

- 2. Since the clinical study for the Akreos intraocular lens was conducted with the
- YAG laser posterior capsulotomies should be delayed until at least 12 weeks after the implant surgery. The posterior capsulotomy opening should be kept as
- Improper handling may cause damage to the haptic or optic portions of Akreos foldable lenses. If lenses are not handled appropriately, optic tears may result. Physicians should not attempt to implant lenses that have radial optic tears or
- 5. Use of folding instruments other than those validated and recommended in the labeling might result in IOL damage (optic tears, haptic damage) that might
- exercise care during handling and insertion of the lens.
- 1. Do not attempt to resterilize these lenses as this can produce undesirable side
- $3. \ \ Do \ not \ implant \ the \ IOL \ if \ the \ outer \ pouch \ or \ vial \ is \ opened \ or \ damaged.$
- implantations and should have completed one or more courses on intraocular implantation before attempting to implant intraocular lenses.
- (endophthalmitis), retinal detachment, vitritis, cystoid macular edema, corneal cement, vitreous aspirations or iridectomy for pupillary block, wound leak r, and retinal detachment repair. Amongst those directly related to the

IOL are decentering and subluxation, precipitates on the surface of the IOL. Silicone oil, particularly when used in the surgical treatment of detached retine may stick to the IOL if the posterior capsule of the crystalline lens is not intact.

- $8. \ \ The \ IOL \ should \ be \ used \ in \ the \ shortest \ possible \ time \ after \ opening \ the \ vial.$ 9. Do not implant the IOL if the lens is not completely immersed in solution under
- 10. Akreos IOLs can absorb substances that they contact (disinfectant, drug...). Do not place the lens in contact with surfaces where such contamination can occur 11. If a YAG laser posterior capsulotomy is performed, assure that the laser beam is
- SUGGESTED A-CONSTANT
- The suggested A-constant listed on the outer label is presented as a guideline and is a starting point for implant power calculations. It is recommended that you develop your own constant appropriate for you based on clinical experience with the particular lens models, surgical techniques, measuring equipment, and
- IN THE UNITED STATES, IF ADDITIONAL INFORMATION ON LENS POWER IS NEEDED, PLEASE CONTACT BAUSCH & LOMB INCORPORATED AT 1-800-338-2020.

OUTSIDE OF THE UNITED STATES, CONTACT LOCAL

- BAUSCH + LOMB OFFICES OR DISTRIBUTORS. OPENING INSTRUCTIONS: Open the carton and remove the sterilized pouch containing the lens via Gradually neel the nouch apart to release the lens vial onto the sterile field
- efore opening the lens vial, make a final check of the IOL and its power. (Please refer to the enclosed figures): FIG. 3: Hold the vial in one hand, with the pull-tab of the foil lid pointing towards you. Your thumb should be pressed against the flattened
- side of the vial's profile. Grasp the pull-tab of the foil lid and pee foil lid away from you to expose the holder inside the vial. FIG. 4: Carefully lift the holder out of the vial.
- FIG. 5: Position the holder so that the circular hole on top of the protective cover is facing up. Remove the protective cover by grasping the exposed tab, bending it upward, away from the holder and pulling Remove the lens from the holder by gently grasning the ontic along the

the interior to the information of yearing grashing the opic and grief of the original original original original original or the forceps. Examine the lens closely and rinse with sterile balanced salt solution. Only insertion instruments that have been validated and approved for use with this lens should be used. NOTE: Please refer to the Directions for Use with the insertion instrument for additional information.

LENS ORIENTATION

For the Akreos AO Micro Incision Lens, the lens is to be implanted with the anterior side of the lens facing the anterior of the eye. The orientation of the IOL can be verified by visual inspection of the haptics. As illustrated in FIG. 6, when the naptic features are top right (f B) and bottom left (f A), the lens is positi

LENS	INSERTER	VISCOELASTIC
MI60L	Medicel Viscoject LP604350	OcuCoat* Amvisc* Amvisc* Plus

PATIENT REGISTRATION AND REPORTING

Registration (USA) Each patient who receives an Akreos intraocular lens must be registered with

Bausch & Lomb Incorporated at the time of lens implantation (USA). Registration is accomplished by completing the Lens Accountability Form that is enclosed in the lens box and mailing it to Bausch & Lomb Incorporated. Patient registration is essential for the Bausch & Lomb Incorporated long-term patient follow-up program and will assist Bausch & Lomb Incorporated in responding to Adverse Event Reports and/or potentially sight-threatening complication

Adverse events and/or potentially sight threatening complications that may be regarded as lens related and that were not previously expected in nature, severity or degree of incidence should be reported within five (5) days to Bausch & Lomb Incorporated. This information is being requested from all surgeons

- n order to document potential long-term effects of intraocular lens implantation Physicians are encouraged to report these events in order to aid in identifying merging or potential problems with intraocular lenses. These problems n be related to a specific lot of lenses or may be indicative of long-term effects associated with these lenses or with IOLs in general.
- If the patient has a Bausch + Lomb intraocular lens and yo problem, please call; Bausch & Lomb Incorporated at 1-800-338-2020.

CALCULATION OF LENS POWER

The physician should determine preoperatively the power of the intraocular lent to be implanted. Lens power calculation methods are described in the following the power calculation methods are described in the following the power calculation methods are described in the following the power calculation methods are described in the following the power of the intraocular length of the power of

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$Physicians\ requiring\ additional\ information\ on\ lens\ power\ calculation\ may contact\ Bausch\ \&\ Lomb\ Incorporated\ at\ 1-800-338-2020.$ CLINICAL EXPERIENCE

The Core clinical trial of the UV-Absorbing, Akreos posterior chamber intraocular lens, Model Akreos, began on November 23, 2004. Patients in the Core clinical trial were implanted exclusively following a circular tear anterior capsulotomy. No Modified Core Patients were enrolled. One year follow-up results from the Core patients indicate that the Akreos Intraocular Lens is a safe and effective device for the visual correction of aphakia when used in accordance

PATIENT POPULATION

with the indications previously listed in this labeling.

The population in the clinical trial of the UV-absorbing. Akreos posterior chambe intraocular lens consisted of 356 patients who were enrolled between Novembe 2004 and April 2005. The Core Study Group consisted of 215 females and 141 males; 329 were Caucasian, 13 were Black, 2 were Asian, and 12 were "Other" The mean age for the total population was 71 years. The Core Group was further stratified to identify a "Cohort" group of 329 patients who completed 1-year

TABLE 1 PATIENT POPULATION MODEL AKREOS

PATIENT POPULATION	DATA
Average Age, Years	70.9
Patients with Pre-existing Macular Degeneration (%)	2.25
Additional Patients with Other Pre-existing Conditions (%)	12.36
Gender (%): Male Female	39.61 60.39
Race (%): Caucasian Black Asian Other	92.42 3.65 0.56 3.37

VISUAL ACUITY

The following is a summary of final visual acuity postoperatively achieved by Akreos subjects (at 12-14 months) who did not have a preoperative ocul pathology or postoperative macular degeneration (Best Case Cohort).

TABLE 2[†] BEST CORRECTED VISUAL ACUITY AT ONE YEAR BEST CASE SUBJECTS MODEL AKREOS

		TISOTETICS:																	
AGE GROUP 1	TOTAL		/20 or tter %		1/21 to 1/25 %		1/26 to 1/30 %		1/31 to 1/40 %		/40 or tter %		0/41 to 0/80 %		0/81 to /100 %		/101 to /200 %		/200 or orse
<60	23	15	65.2	5	21.7	1	4.3	1	4.3	22	95.7	1	4.3	0	0.0	0	0.0	0	0.0
60 to 69	100	52	52.0	33	33.0	9	9.0	5	5.0	99	99.0	1	1.0	0	0.0	0	0.0	0	0.0
70 to 79	117	53	45.3	32	27.4	19	16.2	10	8.5	114	97.4	3	2.6	0	0.0	0	0.0	0	0.0
80 & older	39	12	30.8	13	33.3	8	20.5	3	7.7	36	92.3	3	7.7	0	0.0	0	0.0	0	0.0
Total	279	132	47.3	83	29.7	37	13.3	19	6.8	271	97.1	8	2.9	0	0.0	0	0.0	0	0.0

TABLE 3^{†ffi} BEST CORRECTED VISUAL ACUITY AT ONE YEAR ALL ENROLLED SUBJECTS MODEL AKREOS

								•											
			VISUAL ACUITY																
AGE			/20 or)/21 to)/26 to		/31 to		/40 or	21	0/41 to	21	0/81 to	20	/101 to		/200 or
GROUP	TOTAL		tter %	20 n	to)/25 %	20 n)/30 %	20 n	V40 %		tter %	20 n	0/80 %	20 n	/100 %	20 n	/200 %		orse %
<60	25	15	60.0	6	24.0	1	4.0	1	4.0	23	92.0	1	4.0	0	0.0	1	4.0	0	0.0
60 to 69	110	54	49.1	36	32.7	10	9.1	7	6.4	107	97.3	3	2.7	0	0.0	0	0.0	0	0.0
70 to 79	142	61	43.0	39	27.5	27	19.0	11	7.7	138	97.2	4	2.8	0	0.0	0	0.0	0	0.0
80 & older	52	16	30.8	15	28.8	13	25.0	5	9.6	49	94.2	3	5.8	0	0.0	0	0.0	0	0.0
Total	329	146	44.4	96	29.2	51	15.5	24	7.3	317	96.4	11	3.3	0	0.0	1	0.3	0	0.0

 \dagger Manifest refractions were performed at 14 feet rather than 20 feet for all subjects at one study site (25 subjects). After Form 3 (30–60 days post-op), a correction of -0.25D was added to the manifest refraction to ensure that a correction of -U.S.D. was added to the manifest retraction to ensure that measured BCVA was not impacted by this procedural deviation. BCVA at visits through Form 3 may be lower than actual BCVA achieved.

$ffi24 \, subjects \, had \, YAG \, capsulotomies, \, 5 \, occurring \, before \, Form \, 4 \, (120-180 \, days)$ post-op). YAG capsulotomy is expected to produce an impr outcome compared to the pre-YAG visual acuity.

ADVERSE EVENTS

Cumulative adverse events include the total number of adverse events that have occurred at any time during the first postoperative year. The cumulative adverse enced during the clinical trial of the Akreos intraocular lens, Model Akreos, are listed in TABLE 4.

TABLE 4

CUMULATIVE ADVERSE EVENT	AKREOS INCIDENCE (%) N=353	FDA GRID (%)
Hyphema	0.0	2.2
Macular Edema	1.4	3.0
Retinal Detachment	0.0	0.3
Pupillary Block	0.0	0.1
Lens Discoloration	0.0	0.1
Endophthalmitis	0.0	0.1
Hypopyon	0.0	0.3
Surgical Reintervention	0.0	0.8

TABLE 5

As of April 2006, there were 356 Akreos study implants and the overall

PERSISTENT ADVERSE EVENT	AKREOS INCIDENCE (%) N=329	FDA GRID (%)
Macular Edema	0.3 (6*)	0.5
Comeal Edema	0.9 (3)	0.3
Iritis	0.3 (1)	0.3
Raised IOP Requiring Treatment	0.6 (2)	0.4
One subject was counted for	hoth cumulative and persist	ent Macular Edema

CLINICAL TRIAL ON AKREOS ASPHERIC MODEL AO60 The Akreos Advanced Optics Aspheric lens (Model AO60) has prolate aspheric surfaces and a clinical study was conducted to assess the effects of the added aspheric surfaces. The primary endpoints were a comparison between the original spherical Akreos and aspheric Model AO60 for low contrast best

corrected visual acuity (BCVA) and mean mesopic and photopic contrast sensitivity at 3 months postoperatively. An additional primary endpoint was a comparison between lenses for posterior capsular opacification (PCO) at one and two years postoperatively. Secondary endpoints examined include a comparison between IOLs for spherical aberration and total high order aberrations at 1 and 3 months postoperatively and high contrast UCVA and BCVA at 24 months.

- The following outcomes were observed for the primary endpoints: • Mean low contrast logMAR BCVA for the aspheric IOL population was 0.22 ± 0.10 and for the spherical IOL population was 0.24 ± 0.13 at 3-months postoperatively. There was no statistically significant difference between
- Photopic and mesopic contrast sensitivity at 3-months postoperatively were not clinically or statistically significantly different between the aspheric and the spherical IOL populations.

The following outcomes were observed for secondary endpoint

 The outcomes related to spherical aberration and total higher-order aberrations were not interpretable due to large amounts of missing data Mean high contrast logMAR UCVA for the aspheric population was 0.64+0.26 and for the spherical IOL population was 0.64+0.25 before cataract surgery and improved to 0.22+0.18 and 0.27+0.23 respective at 24-months postoperatively. Mean high contrast logMAR BCVA for the aspheric population was 0.37 +0.20 and for the spherical IOL population wa 0.39 +0.21 before cataract surgery and improved to 0.11 +0.14 and 0.15 +0.15 respectively at 24-months postoperatively.

HOW SUPPLIED

solution and are individually pouched. The pouch and vial are steam sterilized and should be opened only under sterile conditions. Akreos IOLs are presented in a fixture that allows holding of the implant. A patient card and self-adhesive labels identifying the implant, ensure the medical follow-up of the patient and provide traceability of the IOI. These are supplied in the carton containing instructions to acteristics of the IOL, serial number, expiration date...). Akreos IOLs are steam sterilized. The IOL model, its power and expiration date should be verified before opening the protective packaging and before opening the individual sterile pouch. Sterility of the IOL is guaranteed only if the individual sterile pouch has not been opened or damaged. Do not use the IOL if the carton or carton seal are

opened or damaged. **EXPIRATION DATE**

The expiration date on the lens package is the sterility expiration date. This lens should not be implanted after the indicated sterility expiration date. Any lens held after this date should be returned to Bausch & Lomb Incorporated.

WARRANTY

Bausch & Lomb Incorporated warrants that the intraocular lens, when delivered will conform to all applicable laws and the manufacturer's then current version o the published specifications for such intraocular lens in all material respects and will be free from defects in material and workmanshi

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RETURN GOODS POLICY

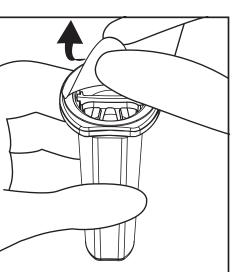
All lenses being returned must be accompanied by a returned goods authorization umber issued by Bausch + Lomb Customer Service. Call 1-800-338-2020 for return authorization and full policy information. BIBLIOGRAPHY

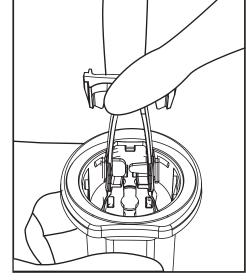
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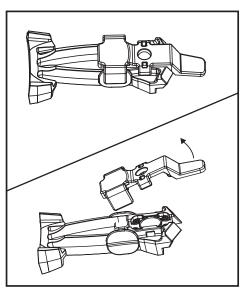


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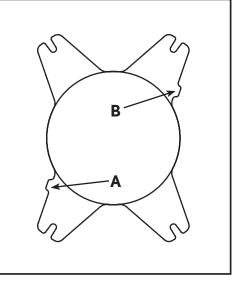


FIG. 4 FIG. 3 FIG. 6 FIG. 5