

BAUSCH+LOMB



FOLDABLE HYDROPHOBIC ACRYLIC UV ABSORBING POSTERIOR CHAMBER INTRAOCULAR LENS **DEVICE DESCRIPTION**

The enVista[™] intraocular lens (IOL) is a singlepiece ultra-violet absorbing posterior chamber intraocular lens developed to replace the natural crystalline lens in adult patients in whom the cataractous lens has been removed.

The enVista IOL has an aspheric optic and is designed to be free of spherical aberration. Clinical studies have not been conducted with the enVista IOL to assess the effect of the aspheric surface on spherical aberration, visual acuity, or contrast sensitivity.

PHYSICAL CHARACTERISTICS OF ENVISTA™ MODEL MX60

Lens/Haptic Material	Hydrophobic acrylic (hydroxyethyl methacrylate (HEMA)-polyethylene glycol phenyl ether acrylate (poly(EG)PEA)-styrene copolymer, crosslinked with ethylene glycol dimethacrylate)
Material Characteristics	Index Of Refraction: 1.54 @ 35°C; Specific Gravity: 1.19 g/ml
Optic Type	Aspheric
Powers	0.0 to +34.0 Diopters (0.0 to +10.0 in 1.0 Diopter increments, +10.0 to +30.0 in 0.5 Diopter increments, and +30.0 to +34.0 in 1.0 Diopter increments)
Dimensions	Body Diameter: 6.0 mm; Overall Diameter: 12.5 mm; Haptic Angle: 0°
Spectral	Ultraviolet: 10% transmittance at 365 nm

Transmittance for +20.0 diopter IOI

FIGURE 1: SPECTRAL TRANSMITTANCE CURVES (PERCENTAGE OF ULTRAVIOLET TRANSMITTANCE)

+ 20 DIOPTER ENVISTA MX60 I EN 53 YEAR OLD HUMAN LENS

WAVELENGTH, nm NOTE: Light transmittance values for an IOL

material may vary slightly depending on the method of measurement. Reference: 53 year old human lens data from Boettner, E.A. and Welter, J. R., "Transmission of the Ocular Media," Investigative Ophthalmology, 1:776-783, 1962.

INDICATIONS Indicated for primary implantation for the visual

correction of aphakia in adult patients in whom the cataractous lens has been removed. The lens is intended for placement in the capsular bag. WARNINGS

Physicians considering lens implantation under any of the following circumstances should weigh the potential risk/benefit ratio:

Recurrent severe anterior or posterior segment inflammation or uveitis. Patients in whom the intraocular lens may affect the ability to observe, diagnose, or treat

posterior segment diseases. 3. Surgical difficulties at the time of cataract extraction, which might increase the potential for complications (e.g., persistent bleeding, significant iris damage, uncontrolled positive

pressure, or significant vitreous prolapse or 4. A distorted eye due to previous trauma or

developmental defect in which appropriate support of the IOL is not possible.

5. Circumstances that would result in damage to the endothelium during implantation.

6. Suspected microbial infection.

7. Children under the age of 2 years are not

suitable candidates for intraocular lenses.

8. Patients in whom neither the posterior capsule

nor zonules are intact enough to provide

PRECAUTIONS

. Do not attempt to resterilize the lens as this can produce undesirable side effects.

. Do not use if product sterility or quality is thought to be compromised due to damaged packaging or signs of leakage (such as the loss of saline storage solution, or the presence of salt crystallization

Do not soak or rinse the intraocular lens with any solution other than sterile balanced salt solution or sterile normal saline. Do not store the lens at a temperature greater than 43°C (110 °F). DO NOT FREEZE. Do not

autoclave the intraocular lens. . Do not reuse the lens. It is intended for permanent implantation. If explanted, sterility and proper function cannot be assured.

The safety and effectiveness of the enVista IOL have not been substantiated in patients with preexisting ocular conditions and intraoperative complications (see below). Careful preoperative evaluation and sound clinical judgment should be used by the surgeon to decide the benefit/risk ratio before mplanting a lens in a patient with one or more of these conditions. Physicians considering lens implantation in such patients should explore the use of alternative methods of aphakic correction and consider lens implantation only

if alternatives are deemed unsatisfactory in

meeting the needs of the patient. Before Surgery

implanting this lens.

 Retinal conditions or predisposition to retinal conditions, previous history of, or a predisposition to, retinal detachment or oroliferative diabetic retinopathy, in which uture treatment may be compromised by

 Clinically severe corneal dystrophy (e.g., Fuchs') Rubella, congenital, traumatic or complicated cataracts

Extremely shallow anterior chamber, not due to

 Recurrent anterior or posterior segment inflammation of unknown etiology, or any disease producing an inflammatory reaction in the eye (e.g. iritis or uveitis).

 Iris neovascularization Glaucoma (uncontrolled or controlled with

Microphthalmos or macrophthalmos

negatively impact stability of the implant.

Optic nerve atrophy

Previous corneal transplant Pre-existing ocular conditions which may **During Surgery**

· Mechanical or surgical manipulation required to enlarge the pupil

 Vitreous loss (significant) Anterior chamber bleeding (significant) • Uncontrollable positive intraocular pressure

> Complications in which the IOL stability could be compromised . Patients with preoperative problems such as corneal endothelial disease, abnormal cornea, macular degeneration, retinal degeneration, glaucoma, and chronic drug miosis may

not achieve the visual acuity of patients without such problems. The physician must determine the benefits to be derived from lens implantation when such conditions exist.

8. A high level of surgical skill is required for intraocular lens implantation. The surgeon should have observed and/or assisted in numerous implantations and successfully completed one or more courses on intraocular lens implantation before attempting to implant intraocular lenses.

O. As with any surgical procedure, there is risk involved. Potential complications accompanying cataract or implant surgery may include, but are not limited to the following: corneal endothelial damage, infection (endophthalmitis), retinal detachment, vitritis, cystoid macular edema, corneal edema, pupillary block, cyclitic membrane, iris prolapse, hypopyon, transient or persistent glaucoma, and secondary surgical intervention. becondary surgical interventions include, but

are not limited to: lens repositioning, lens replacement, vitreous aspiration or iridectomy for pupillary block, wound leak repair, and etinal detachment repair. lens power calculations. H. John Shammas 10. Care should be taken to remove viscoelastic

from the eye at the close of surgery.

CALCULATION OF LENS POWER

The recommended A-constant listed on the lens carton is intended for use with axial length measurements obtained by optical biometry. Use of axial length measurements by other techniques (e.g. Applanation A-scan) will normally require a fferent lens constant. This number is a guideline only and is based on an evaluation of clinical data obtained using the IOL Master.

The physician should determine preoperatively the power of the lens to be implanted. Lens power calculation methods are described in the following Hoffer K J. The Hoffer Q formula: a comparison

of theoretic and regression formulas, Journal of Cataract and Refractive Surgery Vol. 19, pp. 700-712, 1993; ERRATA, Vol. 20, pp. 677, 1994. Holladay JT, Musgrove KH, Prager TC, Lewis JW, Chandler TY, Ruiz RS. A three-part system for refining intraocular lens power calculations.

Journal of Cataract and Refractive Surgery, Vol. 14, pp. 17-24, 1988. Norrby NES. Unfortunate Discrepancies, Letter to the Editor and Reply by Holladay JT. Journal of Cataract and Refractive Surgery, Vol. 24, pp. 433-434, 1998,

Olsen T, Olesen H, Thim K, and Corydon L Prediction of pseudophakic anterior chamber depth with the newer IOL calculation formulas. Journal of Cataract and Refractive Surgery, Vol. 18, pp. 280-285, 1992. Retzlaff JA, Sanders DR, Kraff MC. Development

of the SRK/T intraocular lens implant power calculation formula. Journal of Cataract and Refractive Surgery, Vol. 16, pp. 333-340, 1990; ERRATA, Vol. 16, pp. 528, 1990. Haigis W: The Haigis Formula. In: Intraocular

(eds), Slack Incorporated, Thorofare, NJ, USA,

pp. 39-57, 2004.

DIRECTIONS FOR USE

. Prior to implanting, examine the lens package for type, power, and proper configuration. Open the peel pouch and remove the vial in a

Remove the lid from the vial.

With a pair of smooth forceps, remove the lens for sale in Canada. from the vial by gently grasping the lens haptic. 1. Rinse the entire lens with sterile balanced salt

solution or sterile normal saline. A clinical study of the enVista Hydrophobic Examine the lens thoroughly to ensure particles Acrylic Intraocular Lens, Model MX60, began have not become attached to it, and examine in the United States on October 19, 2010. This

the lens optical surfaces for other defects. prospective, single arm, open label study included The lens may be soaked in sterile balanced salt a total of 122 subjects (122 eyes) at 6 clinical sites. solution until ready for implantation. Postoperatively, subjects underwent complete Amvisc®, Amvisc® Plus, or OcuCoat® viscoelastic ophthalmic evaluations at regularly scheduled

should be used for lubrication of the delivery

system when inserting the lens. Bausch + Lomb recommends using a Bausch Table 1 displays demographic information of + Lomb approved delivery system, which subjects enrolled in the clinical trial. Table 2 displays includes, but is not limited to the Medicel BCVA results for best case subjects (those without ACCUJECT 2.2-1P, the Medicel ACCUJECT 2.6-1P, clinically significant pre-operative pathologies or other injector sets that specifically identify or macular degeneration at any time during the the enVista MX60 lens in their cleared labeling. study) for 3 visits. At the Form 4 visit, 118 subjects Please refer to the Directions For Use of the (100%) achieved BCVA of 20/40 or better, which

nsertion instrument for additional information.

0. There are various surgical procedures that can be utilized, and the surgeon should select a procedure that is appropriate for the patient. Surgeons should verify that appropriate instrumentation is available prior to surgery.

CLINICAL TABLES

OVERVIEW OF CLINICAL STUDIES

Clinical studies have been conducted on the

enVista single-piece IOL (model MX60) and the

parent xact X-60 three-piece IOL (model X-60)*.

* The AVS xact X-60 Intraocular Lens is not licensed

Summary of Clinical Study for enVista

intervals through Form 4 (Postoperative Days 120-

exceeds the FDA grid of 96.7%.

device, Model MX60 IOL.

The key safety outcomes for this study are

presented in Table 3. The rates of FDA defined

potentially sight-threatening adverse events that

occurred in the clinical trial at Form 4 were found

to be less than the "FDA Grid" of Historical Controls

Two cumulative adverse events (2/122: 1.6%) of

cystoid macular edema were reported through the

Form 4 visit. One persistent adverse event (1/121:

0.8%) of cystoid macular edema was reported at

the Form 4 visit. No serious ocular adverse events

adverse event of advanced leukemia with an

occurred during this study. One serious non-ocular

outcome of death was reported during this study

The adverse event was determined by the study

investigator to be unrelated to the investigational

reasonable assurance that the Model MX60 IOL

is safe and effective for the visual correction of

The results of clinical investigations provide

aphakia following cataract extraction.

TABLE 1: SUBJECT DEMOGRAPHICS ne results of these studies are described herein.

	n	%
Number of Subjects	122	100.0
Gender		
Male	53	43.44
Female	69	56.56
lace		
African-American	1	0.82
Caucasian	119	97.54
Hispanic	2	1.64
ige		
< 60	13	10.66
60 to < 70	50	40.98
70 to < 80	54	44.26
≥ 80	5	4.10
Mean ± SD	69.0	(8.0)
Range (Min, Max)	46	i, 93

TABLE 2: **BEST CORRECTED VISUAL ACUITY BY** POSTOPERATIVE VISIT (BEST CASE ANALYSIS

Nº 18 %	Form 2		Form 3		Form 4	
Visual Acuity	n	%	n	%	n	%
20/20 or better	82	69.5	93	78.2	99	83.9
20/25 or better	108	91.5	113	95.0	110	93.2
20/32 or better	117	99.2	117	98.3	117	99.2
20/40 or better	118	100	118	99.2	118	100
Exact 95% CI for 20/40 or better ¹	96.9%	, 100%	95.4%	,100%	96.9%	, 100%
Binomial Test p-value for comparing % of 20/40 or better, using FDA recommended p=0.967			1.0	000		
20/41 to 20/63 ²	0	0.0	1	0.8	0	0.0
20/64 to 20/100	0	0.0	0	0.0	0	0.0
20/101 to 20/200	0	0.0	0	0.0	0	0.0
Worse than 20/200	0	0.0	0	0.0	0	0.0
N³	- 1	18	- 11	19	1	18
N missing⁴		1	()		1
Total N ⁵	1	19	- 11	19	1	19

ubject No. 04-027 experienced an AE of cystoid macular edema at Form 3; however, this AE was not persistent, and the subject achieved a BCVA of 20/20 at the Form 4 visit. Number of available best case subjects, plus best case subjects who missed scheduled visit but were seen later, d with VA measurement for the corresponding group [

 $= (n \div N) \times 100\%]$. Jumber of subjects with missing VA measurement for the otal N: N + N-missing subjects for the corresponding

TABLE 3 ISO DEFINED CUMULATIVE AND PERSISTENT ADVERSE EVENTS THROUGH FORM 4 (SAFETY ANALYSIS SET)

 Adverse Event
 n/N¹
 %
 ISO Grid (%)
 90% Cl²
 p-value³

dophthalmitis	0/122	0.0	0.1	0.00, 2.43	1.0000		
phema	0/122	0.0	2.2	0.00, 2.43	1.0000		
popyon	0/122	0.0	0.3	0.00, 2.43	1.0000		
L Dislocation	0/122	0.0	0.1	0.00, 2.43	1.0000		
stoid Macular Edema	2/122	1.6	3.0	0.29, 5.07	0.8839		
ıpillary Block	0/122	0.0	0.1	0.00, 2.43	1.0000		
etinal Detachment	0/122	0.0	0.3	0.00, 2.43	1.0000		
condary Surgical Intervention	0/122	0.0	0.8	0.00, 2.43	1.0000		
ersistent Safety Events ⁵							
rneal Edema	0/121	0.0	0.3	0.00, 2.45	1.0000		
tis	0/121	0.0	0.3	0.00, 2.45	1.0000		
stoid Macular Edema	1/121	0.8	0.5	0.04, 3.86	0.4548		
nised IOP Requiring Treatment	0/121	0.0	0.4	0.00, 2.45	1.0000		
n: number of eyes reported with corresponding event. For cumulative event, N: number of implanted eyes. For persistent event, N: number of eyes returned for the Form 4 examination with non-missing response for the corresponding adverse event. A subject could be reported							

with more than one AE. ²Based on binomial distribution ³Binomial test for the null hypothesis H_o: Percent from study ≤Percent from ISO Grid [per ISO 11979-7:2006 (E)]. Occurring at any time during the study.

Other Clinical Findings

All subjects in the safety analysis set were evaluated for IOL glistenings at Form 3 and Form 4 visits. IOL glistenings were evaluated via retroillumination slit amp examination utilizing a photographic grading scale provided in the protocol. The grading scale consisted of (in order of severity), "none, grade 0 trace), grade 1, 2, 3, or 4." No glistenings of any grade were reported for any subject at any visit in he clinical study.

Summary of Clinical Study for xact Nodel X-60 (Three-Piece IOL)

A clinical study of the xact Model X-60 IOL began in the United States on May 8th, 2002 and was conducted by Advanced Vision Science. A total of 383 subjects were enrolled, and 367 subjects were available for examination at one year, 312 were vailable at two years, and 281 were available at

Table 4 displays demographic information of subjects enrolled in the clinical trial. Table 5 summarizes the best-corrected distance visual acuity (BCVA) results for best case subjects (those without clinically significant pre-operative pathologies or macular degeneration at any time during the clinical trial).

Potentially sight threatening adverse events are listed in Table 6, along with the rate of occurrence in the clinical trial of the X-60 IOL, and are compared to the FDA Grid of Historical Controls. The number of patients included in the analysis of both cumulative and persistent adverse events in some cases was less than the number of patients who returned for examination and were available for analysis as a result of missing information in certain fields on the case report forms.

The results of clinical investigations provide reasonable assurance that the X-60 IOL is safe and effective for the visual correction of aphakia following cataract extraction. **CLINICAL TABLES**

SUBJECT DEMOGRAPHICS

er	· ·			
Male	152	39.7		
Female	231	60.3		
	· ·			
Black	8	2.1		
Caucasian	373	97.4		
Hispanic	2	0.5		
< 60	43	11.2		
60 to < 70	105	27.2		
70 to < 80	177	46.2		
≥ 80	58	15.4		
Mean ± SD	71.0	71.0 (9.11)		
Range (Min, Max)	45	45, 93		

VISUAL ACUITY IN BEST CASE POPULATION

TABLE 6:

CUMULATIVE AND PERSISTENT ADVERSE

Adverse Events	1 Year		FDA Grid 1 Year	2 Ye	ears	3 Years	
nulative Safety Events							
mber of Eyes with Postop its = 382	n/N	%	%	n/N	%	n/N	%
ophthalmitis	0/382	0.0	0.1	0/382	0.0	0/382	0.0
hema	0/382	0.0	2.2	0/382	0.0	0/382	0.0
opyon	0/382	0.0	0.3	0/382	0.0	0/382	0.0
Dislocation	0/382	0.0	0.1	0/382	0.0	0/382	0.0
oid Macular Edema	3/376	0.8	3.0	3/377	0.8	3/377	0.8
illary Block	0/382	0.0	0.1	0/382	0.0	0/382	0.0
nal Detachment	3/376	0.8	0.3	4/377	1.1	4/377	1.1
ondary Surgical Intervention	1/3821	0.3	0.8	1/382	0.3	3/3822,3	0.8
sistent Safety Events	n/N	%	%	n/N	%	n/N	%
mber of Eyes Available at Visit	36	367 N/A		312		281	
neal Edema	0/366	0.0	0.3	0/312	0.0	0/281	0.0
5	1/366	0.3	0.3	0/312	0.0	0/281	0.0
oid Macular Edema	0/364	0.0	0.5	0/309	0.0	0/280	0.0
ed IOP Requiring Treatment	0/266	0.0	0.4	0/212	0.0	0/201	0.0

¹IOL was exchanged due to patient complaint of blurred visior despite good BCVA. Investigator suspected glistenings might be related, however only modest improvement of vision was achieved after IOL exchange. PIOL with glistenings was exchanged during retinal surgery to improve fundus visualization by the surgeon. Loss of vision was the result of retinal pathology and was not associated

PIOL was exchanged due to patient complaint of blurred vision estigator suspected glistenings might be related, however vision did not improve after IOL exchange. Since vision did improve after subsequent Nd:Yag capsulotomy, the complaint of blurred vision was not associated with the IOL. OTHER CLINICAL FINDINGS

In the IDE clinical trial, "glistenings" were observed

in some cases. Glistenings, known to sometimes occur in some other hydrophobic acrylic IOLs, are microscopic vacuoles within the optic of the IOL that are visible through the slit lamp as multiple small refractile specks. Analysis of the clinical data confirmed no effect of glistenings on visual

Testing established that glistenings were eliminated by a change in the IOI hydration solution from 10.0% saline to 0.9% saline. This was confirmed in an additional clinical trial conducted outside of the United States. In this study, 172 eves of 142 patients were examined at least once between 1 and 6 months, and 123 eves of 101 patients were examined at least once between 6 months and 2 years. No glistenings were observed at anv time.

HOW SUPPLIED

The lens is individually packaged in a sterile vial (containing a 0.9% saline solution), within a peel pouch, and should only be opened under sterile conditions. A patient card and self-adhesive labels are supplied to provide traceability of the lens. The package is sterilized by gamma irradiation.

EXPIRATION DATE

Sterility is guaranteed unless the pouch is damaged or opened. The expiration date on the lens package is the sterility expiration date. This lens should not be implanted after the indicated sterility expiration date.

ADVERSE EVENT REPORTING

Adverse events and/or potentially sight threateni 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 in order to document potential long-term effects of intraocular lens implantation.

Physicians are encouraged to report these events in order to aid in identifying emerging or potential problems with intraocular lenses. These problems may 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 you wish to report a problem, please call Bausch + Lomb at 1-800-338-2020.

PATIENT REGISTRATION INSTRUCTIONS AND REPORTING REGISTRATION

Each patient who receives an enVista IOL must be registered with Bausch + Lomb at the time of lens implantation. Registration is accomplished by completing the Implant Registration Card that is enclosed in the lens package and mailing it to Bausch + Lomb. Patient registration is essential and will assist Bausch + Lomb in responding to adverse reaction reports and/or potentially sight-threatening complications. An implant identification card is supplied in the lens package and must be given to the patient.

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

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

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SYMBOLS USED ON LABELING Symbol Description Symbol Description

IOL	Intraocular Lens	2	Do Not Reuse
PC	Posterior Chamber	B	Use By (YYYY- MM: year- month)
PCL	Posterior Chamber Lens	STERILE R	Gamma Sterilized
UV	Ultraviolet	R _X ONLY	Caution: Federal (US) law restricts this device to sale by or on the order of a physician
D	Diopter	\triangle	Caution: Consult Instructions for Use
Ø _B	Body Diameter (Optic Diameter)	*	Storage Temperature Limitation
\emptyset_{T}	Overall Diameter (Overall Length)		Do Not Resterilize
SN	Serial Number	0	Member Green Dot Scheme



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