



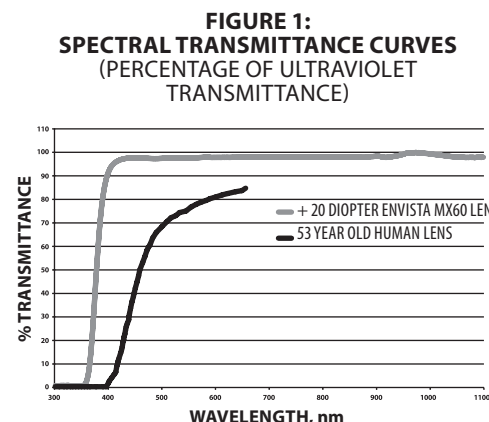
FOLDABLE HYDROPHOBIC ACRYLIC UV ABSORBING POSTERIOR CHAMBER INTRAOCULAR LENSES

**DEVICE DESCRIPTION**  
The enVista™ Intraocular lens (IOL) is a single-piece 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 Transmittance	Ultraviolet: 10% transmittance at 365 nm for +20.0 diopter IOL



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.
- 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 loss).
- A distorted eye due to previous trauma or developmental defect in which appropriate support of the IOL is not possible.
- Circumstances that would result in damage to the endothelium during implantation.
- Suspected microbial infection.
- Children under the age of 2 years are not suitable candidates for intraocular lenses.
- Patients in whom neither the posterior capsule nor zonules are intact enough to provide support.

PRECAUTIONS

- Do not attempt to sterilize 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 implanting 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

- Retinal conditions or predisposition to retinal conditions, previous history of, or a predisposition to, retinal detachment or proliferative diabetic retinopathy, in which future treatment may be compromised by implanting this lens.
- Ambyopia
- Clinically severe corneal dystrophy (e.g., Fuchs')
- Rubella, congenital, traumatic or complicated cataracts
- Extremely shallow anterior chamber, not due to swollen cataract
- Recurrent anterior or posterior segment inflammation of unknown etiology, or any disease producing an inflammatory reaction in the eye (e.g. iritis or uveitis).
- Aniridia
- Iris neovascularization
- Glaucoma (uncontrolled or controlled with medication)
- Microphthalmos or macrophthalmos
- Optic nerve atrophy
- Previous corneal transplant
- Pre-existing ocular conditions which may negatively impact stability of the implant.

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 misis 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.
  - 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.
  - 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, cystic membrane, iris prolapse, hypopyon, transient or persistent glaucoma, and secondary surgical intervention. Secondary surgical interventions include, but are not limited to: lens repositioning, lens replacement, vitreous aspiration or iridectomy for pupillary block, wound leak repair, and retinal detachment repair.
  - 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 different 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 references:

- 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, Musgrave 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.
- Norby 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 lens power calculations. H. John Shammas (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 sterile environment.
- Remove the lid from the vial.
- With a pair of smooth forceps, remove the lens from the vial by gently grasping the lens haptic.
- Rinse the entire lens with sterile balanced salt solution or sterile normal saline.
- Examine the lens thoroughly to ensure particles have not become attached to it, and examine the lens optical surfaces for other defects.
- The lens may be soaked in sterile balanced salt solution until ready for implantation.
- The lens must be soaked in sterile balanced salt solution when inserting the lens.
- Bausch + Lomb recommends using a Bausch + Lomb approved delivery system, which includes, but is not limited to the Mediciel ACCUJECT 2.2-1P, the Mediciel ACCUJECT 2.6-1P, or other injector sets that specifically identify the enVista MX60 lens in their cleared labeling. Please refer to the Directions For Use of the insertion instrument for additional information.
- 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.

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 results of these studies are described herein.

\* The AVS xact X-60 Intraocular Lens is not licensed for sale in Canada.

1. Summary of Clinical Study for enVista Model MX60

A clinical study of the enVista Hydrophobic Acrylic Intraocular Lens, Model MX60, began in the United States on October 19, 2010. This prospective, single arm, open label study included a total of 122 subjects (122 eyes) at 6 clinical sites. Postoperatively, subjects underwent complete ophthalmic evaluations at regularly scheduled intervals through Form 4 (Postoperative Days 120-180).

Table 1 displays demographic information of subjects enrolled in the clinical trial. Table 2 displays BCVA results for best case subjects (those without clinically significant pre-operative pathologies or macular degeneration at any time during the study) for 3 visits. At the Form 4 visit, 118 subjects (100%) achieved BCVA of 20/40 or better, which exceeds the FDA grid of 96.7%.

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 occurred during this study. One serious non-ocular adverse event of advanced leukemia with an outcome of death was reported during this study. The adverse event was determined by the study investigator to be unrelated to the investigational device, Model MX60 IOL.

The results of clinical investigations provide reasonable assurance that the Model MX60 IOL is safe and effective for the visual correction of aphakia following cataract extraction.

CLINICAL TABLES

TABLE 1: SUBJECT DEMOGRAPHICS					
Visual Acuity		n		%	
Number of Subjects		122		100.0	
Gender					
Male		53		43.44	
Female		69		56.56	
Race					
Asian American		1		0.82	
Caucasian		119		99.18	
Hispanic		2		1.64	
Age					
< 60		13		10.66	
60 to < 70		56		45.90	
70 to < 80		54		44.26	
≥ 80		5		4.10	
Mean ± SD				68.0 ± 10.0	
Range (Min, Max)				46-93	

TABLE 2 : BEST CORRECTED VISUAL ACUITY BY POSTOPERATIVE VISIT (BEST CASE ANALYSIS SET)					
Visual Acuity		Form 2		Form 3	
n		n		n	
20/20 or better		67		65	
20/25 or better		105		103	
20/30 or better		121		119	
20/40 or better		119		118	
20/50 or better		119		118	
20/60 or better		119		118	
20/70 or better		119		118	
20/80 or better		119		118	
20/90 or better		119		118	
20/100 or better		119		118	
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20/150 or better		119		118	
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20/300 or better		119		118	
20/400 or better		119		118	
20/500 or better		119		118	
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**DESCRIPTION:** enVista Insert / US / Clearwater

**PART No.: 4099505**

**SPEC No. or SPEC DIMENSIONS:** 45104 / C-68754

**SPECIAL INSTRUCTIONS:** n/a

**PRINT SUPPLIERS:** Please refer to Bausch Health's *Print Supplier Guidelines*

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