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EYE*CRYL*™ TORIC

Hydrophobic Toric Foldable Intraocular Lens

QUICK START GUIDE

Astigmatism Correcting IOL

GLISTENING FREE · GLISTENING FREE ·

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EYECRYL™ TORIC

Hydrophobic Toric Foldable Intraocular Lens

WIPE THE ASTIGMATISM
OFF YOUR VISION

EYECRYL™ TORIC IOLs are designed to give excellent surgical outcome with predictability and visual performance on consistent basis

EYECRYL™ TORIC IOLs provide:

- Predictable Astigmatic Correction
- Excellent Rotational Stability
- Reduced PCO with 360° Advanced Square Edge

A user friendly TORIC Calculator gives appropriate information for planning & implanting the correct TORIC IOL model & intended axis of IOL placement.

INDICATIONS FOR USE:

EYECRYL™ TORIC IOLs are intended to be implanted into the capsular bag in the posterior chamber of the eye for the visual correction of aphakia secondary to the removal of the crystalline lens in patients with cataract with regular corneal astigmatism.

CRITICAL SUCCESS FACTORS

PATIENT SELECTION

- Pre-existing Regular Corneal Astigmatism
- Intact Capsular Bag compatible with Continuous Curvilinear Capsulorhexis
- Patient with Irregular Astigmatism, Keratoconus & other ocular diseases must be excluded

IOL POWER SELECTION - SPHERICAL POWER

- Accurate Biometry (Optical Biometry is preferred)
- Use personalized A-constant

IOL POWER SELECTION - CYLINDRICAL POWER

- Perform Keratometry to determine K-values (Steep K & Flat K)
- Corneal topography examination to evaluate Corneal irregularities
- Use EYECRYL™ TORIC Calculator to determine appropriate Toric IOL model & intended axis of placement

PREOPERATIVE CONSIDERATIONS

- Reference Marking: two reference marks are placed at the limbus, 180° apart (i.e. 3 and 9 o'clock positions), when patient is in upright position to avoid the effect of cyclotorsion

CYLINDRICAL POWER OPTIONS

MODEL	CYLINDER POWER		Recommended Correction Range of Corneal Astigmatism Correction
	AT IOL PLANE	AT CORNEAL PLANE[2]	
HFY-05	1.00 D	0.68 D	0.25 D to 0.86 D
HFY-10	1.50 D	1.03 D	0.87 D to 1.25 D
HFY-20	2.25 D	1.54 D	1.26 D to 1.75 D
HFY-30	3.00 D	2.05 D	1.76 D to 2.25 D
HFY-35	3.75 D	2.57 D	2.26 D to 2.75 D
HFY-40	4.50 D	3.08 D	2.76 D to 3.25 D
HFY-50	5.25 D	3.60 D	3.26 D to 3.75 D
HFY-60	6.00 D	4.11 D	3.76 D and above

INTRAOPERATIVE CONSIDERATIONS

- EYECRYL™ TORIC calculator result printout to be kept handy for graphical reference
- Axis Marking: mark the intended axis for IOL placement, based on EYECRYL™ TORIC Calculator results

AXIS ALIGNMENT

- Primary/Gross Alignment: after implanting the IOL in the Capsular Bag, rotate IOL clockwise by 15° to 20° short of the intended axis of IOL placement
- Viscoelastic Removal: it is important to remove OVD from both Anterior & Posterior sides of IOL. Extra care must be taken for non-rotation of IOL past intended axis of IOL placement
- Secondary/Final Alignment: after OVD removal, rotate IOL clockwise precisely and align with the intended axis of IOL placement

EYECRYL™ TORIC CALCULATOR

User friendly & accurate EYECRYL™ TORIC Calculator provides EYECRYL™ TORIC IOL model recommendation, cylindrical power & intended axis of IOL placement in the Capsular Bag.

www.biotechcalculators.com

Biotech Calculator" is available in form of application on
Android & **iOS** platforms also

STEPS FOR USING EYECRYL™ TORIC CALCULATOR

- Registration
- Activation of login details (Username & Password) will be mailed to registered email ID
- Enter the required pre-operative data
- Select appropriate IOL model
- Print the reference page to refer during intra-operative procedure

REQUIRED DATA FOR CALCULATOR

- Patient's Age
- Patient's NAME
- Section of Left Eye/Right Eye
- Select Option of Diopter or mm
- Flat K/R value with respective Axis
- Steep K/R value with respective Axis
- Axis of Incision Location
- Surgically Induced Astigmatism
- Posterior corneal Astigmatism (Yes / No)

CALCULATION RESULT

- Spherical Equivalent IOL Power
- Crossed Cylinder Result
- EYECRYL™ TORIC IOL Model
- Residual Astigmatism
- Spherical equivalent lens Power
- Axis of IOL Placement
- Cylindrical Power (at IOL & Corneal Plane)
- Unique Calculation ID

EYECRYL™ TROIC CALCULATOR RESULT PAGE:

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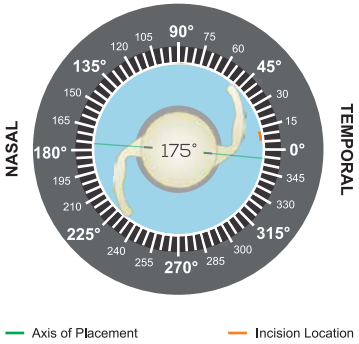
EYECRYL™ TORIC
Hydrophobic Toric Foldable Intraocular Lens



Patient's Name	XYZ	Doctor's Name	Dr. ABC
Patient's Age	55	Date (mm/dd/yyyy)	06/27/2022
Patient's Case No./Id No.	001	Calculation ID	202271904

PRE-OPERATIVE DATA	
Flat K	44.25D @ 85°
Steep K	46.50D @ 175°
Axis of Incision Location	10°
Surgically Induced Astigmatism (SIA)	0.25D
IOL SE Power(D)	21.00
Posterior Corneal Astigmatism	Yes

CALCULATION RESULTS	
Pre-Op Corneal Astigmatism	2.64D @ 176°
Surgically Induced Astigmatism	0.25D @ 100 °
Crossed Cylinder Result (At Corneal Plane)	2.42D @ 175°
Material Code	12HFTP21.00C03.75

SELECTED IOL	
Eyecryl TORIC IOL Model	HFY-35
Residual Astigmatism	0.15D @ 85°
IOL SE Power(D)	21.00D
Axis of Placement	175°
Cylinder Power (IOL plane)	3.75D
Cylinder Power (Corneal plane)	2.57D

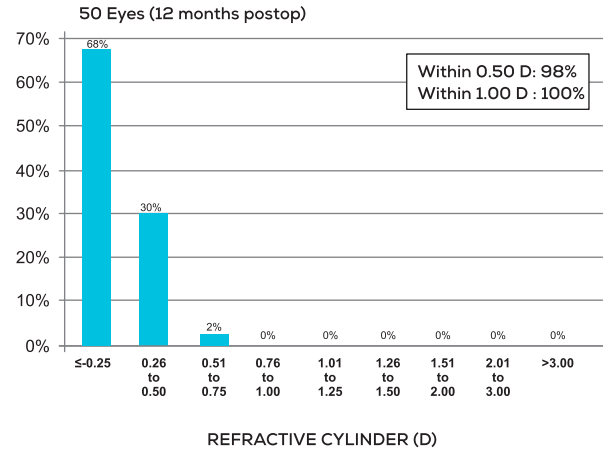
Note: EYECRYL™ TORIC IOL calculator is neither intended to be used for final diagnosis nor as a substitute for surgeon's expertise.

PRINT RESULT

CLINICAL RESULTS [1] (n=50)

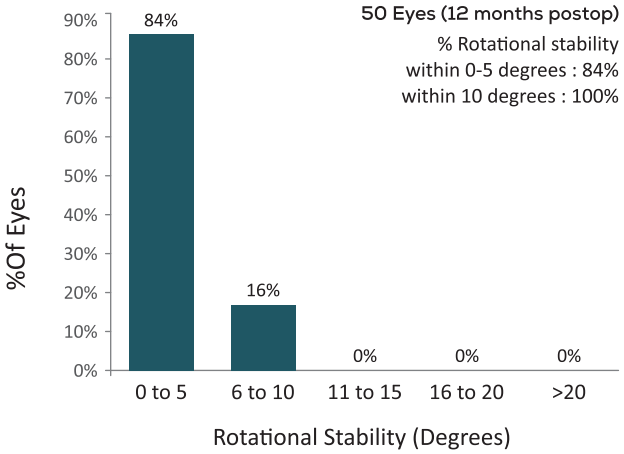
REFRACTIVE CYLINDER (D)

98% eyes achieved refractive astigmatism accuracy within 0.50 D, while 100% were within 0.75 D of post-operative residual cylinder



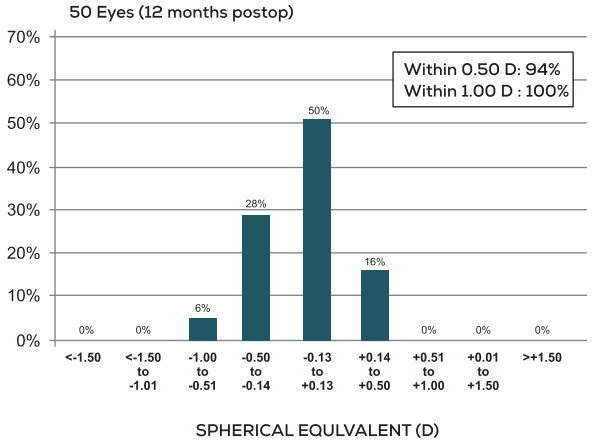
ROTATIONAL STABILITY

The mean absolute change in axis orientation between visits was less than 3° for all visit interval. At 1 year, IOL rotation of 5° or less was noted for 84% of eyes.



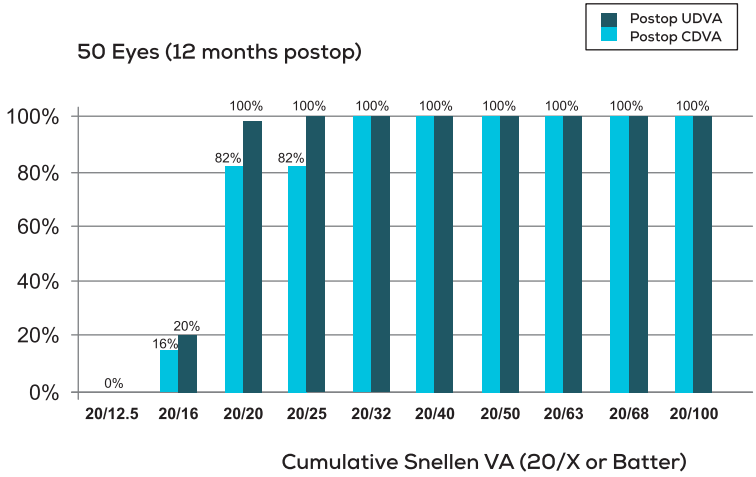
SPHERICAL EQULVALENT (D)

SE refraction accuracy within ± 0.50 D was achieved in 94% eyes and all eyes had SE refraction accuracy within ± 1.00 D



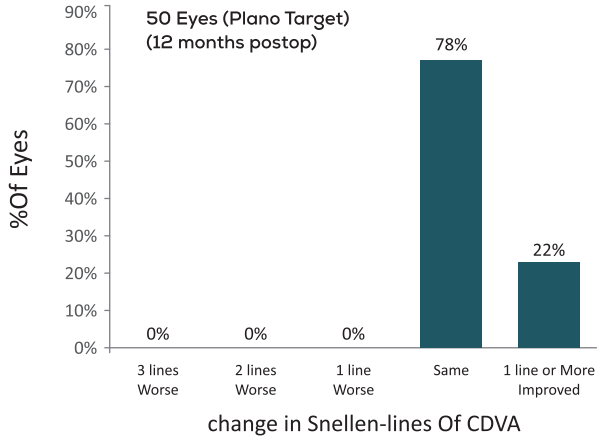
CUMULATIVE SNELLEN VA

At 12 months, 82% eyes had cumulative UDVA of 20/20 or better. All eyes had a cumulative UDVA of 20/40



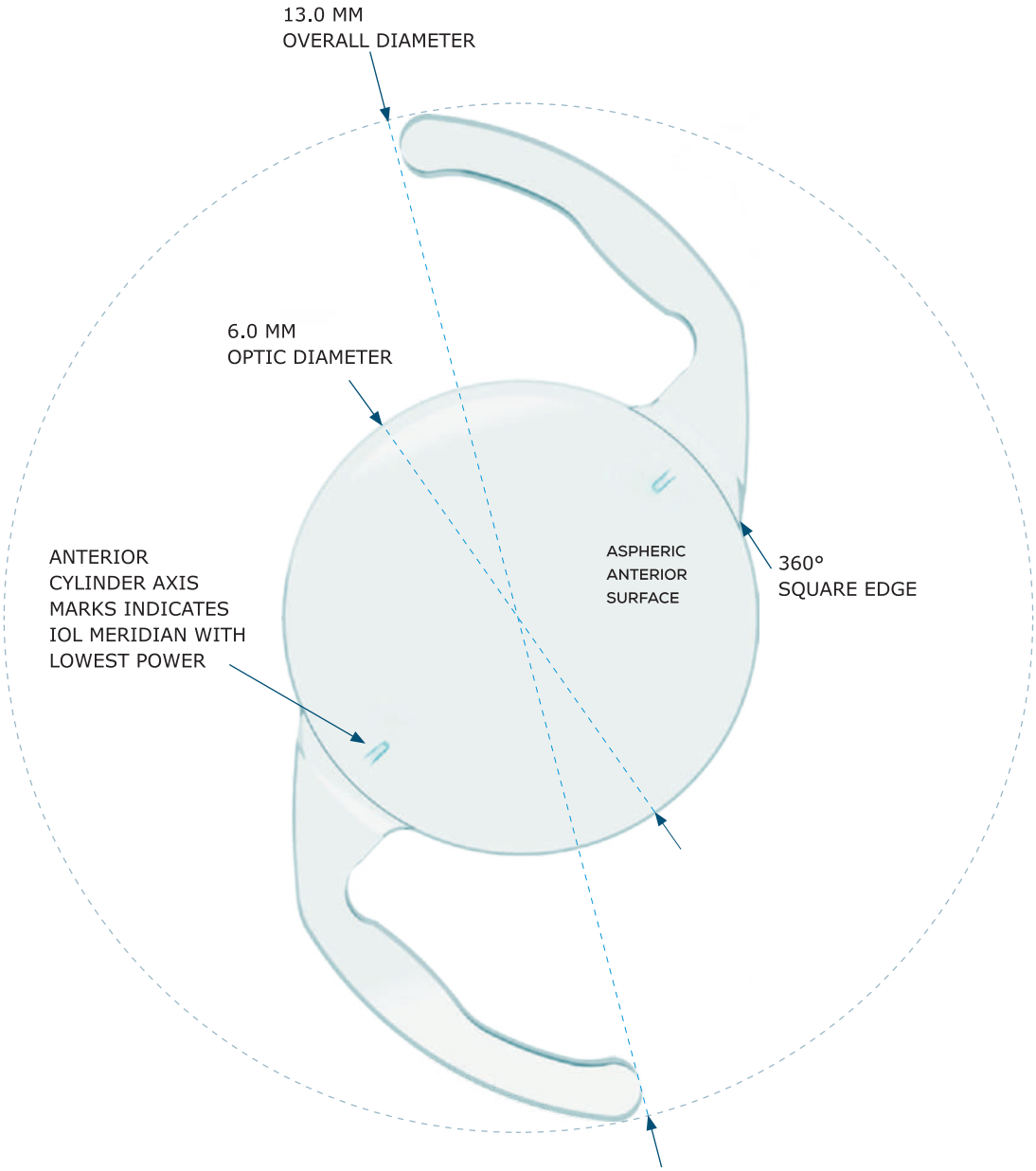
CHANGE IN CDVA

22% eyes had post-operative CDVA one line or better than the post-operative UDVA



SPECIFICATIONS

MATERIAL	Hydrophobic Acrylic containing Natural Yellow Chromophore
OPTIC TYPE	Single Piece, 360° Square Edge with Toric Aspheric Optic
OPTIC SIZE	6.00 mm
OVERALL SIZE	13.00 mm
ANGULATION	0°
ACD	5.28
REFRACTIVE INDEX	1.48
RECOMMENDED ULTRASOUND A-CONSTANT	SRK-T 118.50
RECOMMENDED OPTICAL A-CONSTANTS	HAIGIS a0:1.243, a1:0.400, a2:0.100 / HOFFER Q ACD: 5.53 Holl 1 : 1.76 / Holl 2 : 1.73 / SRK – T 118.90 SRK – II 119.16 / Barrett 1.83
DIOPTER RANGE	+10.0 D to +30.0 D (with 0.5 D steps)
CYLINDER RANGE	1.0 D to 6.0 D (with 0.5D step between 1.0D to 1.5D & with 0.75D step between 1.5D to 6.0D)
IMPLANTATION SITE	Capsular Bag
STERILIZATION	Irradiation
SHELF LIFE	4 years from date of manufacture



REFERENCE:

1. Dr. Sri Ganesh, Dr. Savio; Clinical Study Report-Prospective, single arm clinical study of EYECRYL™ TORIC Intraocular lens for evaluation of clinical outcome"-2019
2. https://jamanetwork.com/ on 07/05/2022

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