

EVO⁺
Visian ICL™

PHAKIC TORIC INTRAOCULAR LENS

Evolution in Visual Freedom™

EVO⁺ Visian TORIC Implantable Collamer
Lens(EVO⁺ TICL)**DIRECTIONS FOR USE****PRODUCT INFORMATION**

Please review this product information completely before performing your initial clinical procedure. All physicians must complete the STAAR Surgical EVO⁺ TICL Physician Certification Program; special attention is placed on sizing methodologies for determination of EVO⁺ TICL overall diameter. Improper EVO⁺ TICL size may lead to adverse events ranging from mild to severe.

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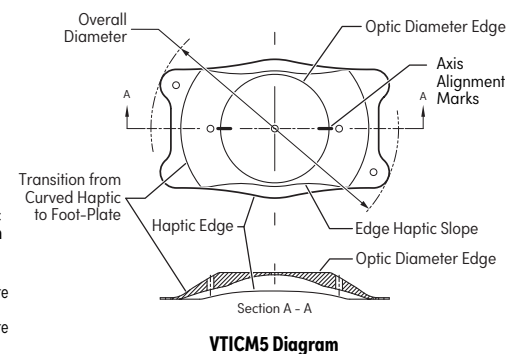
DEVICE DESCRIPTION

EVO⁺ TICL features a single piece lens design with a concave/convex optic zone of 5.0 to 6.1 mm diameter (according to model and diopter) and a 0.36 mm diameter central hole in the optic known as the KS-AquaPORT®. The lens is manufactured in four overall diameters: 12.1, 12.6, 13.2, 13.7 mm to suit different eye sizes. The lenses are capable of being folded and implanted through an incision of 3.5 mm or less. The lenses are manufactured from a proprietary ultraviolet (UV) radiation absorbing polymer containing hydroxyethylmethacrylate (HEMA) and porcine collagen. The 10% UV cut-offs for STAAR's phakic IOL lens family are:

- 377 nm for the thinnest central thickness lens, -5.5 D, and
- 388 nm for the thickest central thickness lens, +10.0 D.

VTICM5 Models**Table 1**

Brand Name	Model Name	Spherical Power (D)	Cylindrical Power (D)	Overall Diameter (mm)	Optic Diameter (mm)	Haptic Design
EVO ⁺ Visian ICL	VTICM5 12.1	-0.5 to -14.0	+0.5 to +6.0	12.1	5.0 to 6.1	Flat, plate
EVO ⁺ Visian ICL	VTICM5 12.6	-0.5 to -14.0	+0.5 to +6.0	12.6	5.0 to 6.1	Flat, plate
EVO ⁺ Visian ICL	VTICM5 13.2	-0.5 to -14.0	+0.5 to +6.0	13.2	5.0 to 6.1	Flat, plate
EVO ⁺ Visian ICL	VTICM5 13.7	-0.5 to -14.0	+0.5 to +6.0	13.7	5.0 to 6.1	Flat, plate



INDICATIONS

EVO+ TICL is indicated for use in phakic eye treatment in patients 21–45 years of age for:

- The correction/reduction of myopia in patients ranging from -0.5 D to -20.0 D with less than or equal to 6.0 D of astigmatism at the spectacle plane.
- With an anterior chamber depth (ACD) equal to or greater than 3.0 mm, as measured from the corneal endothelium to the anterior lens capsule.

MODE OF ACTION

EVO+ TICL is intended to be placed entirely within the posterior chamber directly behind the iris and in front of the anterior capsule of the human crystalline lens. When correctly positioned, the lens functions as a refractive element to optically correct/reduce myopia with astigmatism.

CONTRAINDICATIONS

EVO+ TICL is contraindicated in the presence of any of the following circumstances and/or conditions:

1. Patients with low/abnormal corneal endothelial cell density, Fuchs’ dystrophy or other corneal pathology.
2. Ocular hypertension in either eye.
3. Any cataract in the operative eye or non-traumatic cataract in the fellow eye.
4. Persons under the age of 21 years.
5. Primary Open Angle or Narrow Angle Glaucoma.
6. Narrow anterior chamber angles (i.e. less than Grade III as determined by gonioscopic exam).
7. Pregnant or nursing.
8. Previous or pre-existing ocular disease that would preclude post-operative visual acuity of 0.477 logMAR (20/60 Snellen) or better.
9. Patients who are amblyopic or blind in the fellow eye.
10. Implantation of a lens in an eye with an anterior chamber depth (ACD), as measured from the corneal endothelium to the anterior lens capsule, less than 3.0 mm.

MINIMUM ENDOTHELIAL CELL DENSITY BY AGE

Age at time of enrollment years	Minimum endothelial cell density cells/mm ²
21 to 25	2,800
26 to 30	2,650
31 to 35	2,400
36 to 45	2,200
≥ 46	2000

The table indicates the minimum ECD per age group at the time of implantation. It sets minimum ECD criteria, as functions of age that should result in at least 1000 cells/mm² at 75 years of age assuming a 10% surgical decrease and a yearly 2% rate of decrease thereafter. Specular microscopy should be performed preoperatively and ECD should be monitored postoperatively at intervals dictated by the physician’s medical judgment.

COMPLICATIONS AND ADVERSE REACTIONS

Adverse reactions and complications due to, or following surgery and implantation of any EVO+ TICL may include, but are not limited to: Hyphema, Non-reactive Pupil, Pupillary Block, Additional YAG Iridotomy, Secondary Glaucoma, Cataract, Intraocular Infection, Uveitis/Iritis, Retinal Detachment, Vitritis, Corneal Edema, Macular Edema, Corneal Decompensation, Over/Under Correction, Significant Glare and/or Halos, Hypopyon, Increased Astigmatism, Loss of BSCVA, Rotation/Decentration/Subluxation, IOP Elevation from Baseline, Corneal Endothelial Cell Loss, Iris Pigment Dispersion, Secondary Surgical Intervention to Remove/Replace/Reposition the Lens, Peripheral Anterior Synechia (PAS), Iris Synechia to Implant, Conjunctival Irritation, Vitreous Loss.

PRECAUTIONS

1. Do not attempt to sterilize.
2. Do not autoclave.
3. The lens should not be exposed to any solutions other than the normally used intraocular irrigating solutions (e.g. isotonic saline, BSS, viscoelastic, etc.).
4. The lens should be handled carefully. No attempts should be made to reshape or cut any portion of the lens or to apply undue pressure to the lens optical portion with a sharp object.
5. Do not allow the lens to dry in air. The lens should be stored in sterile BSS solution during surgery.
6. The long-term effect of the lens has not been determined. Therefore, physicians should continue to monitor implant patients postoperatively on a regular basis.
7. Safety and effectiveness of the lens has not been established in patients with: unstable refractive error in either eye, keratoconus, history of clinical signs of iritis/uveitis, synechia, pigment dispersion syndrome, pseudoexfoliation, insulin-dependent diabetes or diabetic retinopathy, history of previous ocular surgery including refractive corneal surgery.
8. Implantation of a lens may result in a decrease in corneal endothelial cell density.

CALCULATION OF LENS POWER AND SIZING

The lens power and size calculation should be performed by the surgeon using the STAAR OCOS Calculation Software. Using the software potentially prevents calculation errors that may result in secondary surgery due to refractive surprise, excessive vaulting, lens rotation, IOP elevation from baseline, etc. During the U.S. FDA trial for the ICM/TICM, the white to white and ACD (from the corneal endothelium to the anterior lens capsule) were used to determine the ICL overall diameter. There are some reports suggesting that white to white corneal measurements do not correlate with sulcus to sulcus. Recent publications indicate that new imaging technologies may provide optimal visualization and measurement of the intraocular dimensions involved in phakic intraocular lens implantation.

LENS PREPARATION

Verify that the level of the liquid fills at least 2/3 of the vial. The thermoformed tray and vial should be opened in a sterile field. Record control number on operative report to retain traceability. Remove the aluminum cap and stopper. Using the foam tip plunger, remove the lens from the vial. The lens should not be exposed to a dry environment (air) for more than one minute.

CAUTION: Do not use if package has been opened or damaged.

CAUTION: Do not allow the lens to dry after removal from the glass vial.

ADMINISTRATION AND INSTRUCTION FOR USE

Implantation of EVO+ TICL should only be attempted by a surgeon who is highly skilled in the required surgical technique. The following procedure is recommended for implantation of EVO+ TICL.

The patient should be prepared for surgery according to standard operating procedure. Mark the desired axis (TARGET axis) for alignment of EVO+ TICL. A clear scleral or corneal tunnel wound incision of 3.5 mm or less should be used, followed by filling of the anterior and posterior chamber with an appropriate viscoelastic. The lens is then folded using a MICROSTAAR® injector MSI-PF or MSI-TF with SFC-45 cartridge and injected into the anterior chamber. Please refer to the product insert provided with the injector for instructions regarding proper loading and injection of the lens using the MICROSTAAR injection system. Verify correct orientation of the lens and that the lens is not inverted. If the pupil remains sufficiently dilated, the lens should be well centered and positioned under the iris in front of the natural lens so that the footplates are placed in the sulcus. Verify EVO+ TICL alignment marks are in the required axis (TARGET axis) according to the Implantation Orientation Diagram (IOD). Complete removal of the viscoelastic material must be performed before the eye is closed (without sutures). From this point the operation can proceed according to the surgeon’s standard procedure. Postoperative medical care of the patient should also follow the surgeon’s standard procedure.

WARNINGS

1. Check the label of the lens package for proper lens model and power.
2. Open the package to verify the dioptric power of the lens.
3. Handle the lens by the haptic portion. Do not grasp the optic with forceps and never touch the center of the optic once the lens is placed inside the eye.
4. Complete removal of viscoelastic from the eye after completion of the surgical procedure is essential. STAAR Surgical recommends a low molecular weight 2% hydroxypropyl methylcellulose (HPMC) or dispersive, low viscosity ophthalmic viscosurgical device.
5. STAAR Surgical recommends using the MICROSTAAR® MSI-PF or MSI-TF with SFC-45 cartridge delivery systems to insert the lens in the folded state.

NOTE: The primary viscoelastic used during the US FDA clinical trial was a low molecular weight 2% hydroxypropyl methylcellulose preparation.

ADVERSE EVENT REPORTING

Adverse Reactions and/or potentially sight-threatening complications that may reasonably be regarded as lens related must be reported to STAAR Surgical immediately. This information is being requested from surgeons in order to document potential long-term effects of EVO+ TICL implantation.

HOW SUPPLIED

EVO+ TICL is supplied sterile and non-pyrogenic in a sealed vial containing BSS. The vial is sealed within a sterile thermoformed tray placed in a box with labels and product information. Sterility is assured until the expiration date indicated on package label, if the tray and vial seal are not punctured or damaged. EVO+ TICL is steam sterilized. Patient Card Instructions: A Patient Card is supplied in the unit package. This card should be given to the patient to keep it as a permanent record of the implant and to show the card to any eye care practitioner seen in the future.

EXPIRATION DATE

The expiration date on the device package is the sterility expiration date. This device must not be used past the indicated sterility expiration date.

RETURN POLICY FOR STAAR EVO+ TICL

Contact STAAR Surgical. EVO+ TICL must be returned dry. Do not attempt to re-hydrate the lens.

STORAGE

Store the lens at room/ambient temperature.

CAUTION:

- Do not autoclave the lens. Do not store at temperatures greater than 40 °C. Do not freeze. If temperature requirements are not met, return the lens to STAAR Surgical.
- STAAR Surgical EVO+ TICL and disposable accessories are packaged and sterilized for single use only. Cleaning, refurbishing and/or resterilization are not applicable to these devices. If one of these devices were reused after cleaning or refurbishing, it is highly probable that it would be contaminated and the contamination could result in infection and/or inflammation.

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CE
0344



STAAR Surgical AG
Hauptstrasse 104
CH-2560 Nidau
Switzerland
Tel: +(41) 32 332 8888

SYMBOL GLOSSARY



Medical device



Do not re-use



Do not resterilize



Do not use if the product sterile barrier system or its packaging is compromised



Body diameter (Optic diameter)



Overall diameter



Single sterile barrier system with protective packaging outside



Importer into the European Union



Use-by date



Diopter



Date



Caution



Contains biological material of animal origin



U.S. (Federal) law restricts this device to sale by or on the order of a physician



Store at room / ambient temperature. Do not freeze. Do not expose to temperature greater than 40 °C



Health care center or Doctor



Sterilized using steam



Authorized representative in the European Community



CE conformity marking per European Council Directive 93/42/EEC or European Council Regulation (EU) 2017/745



Manufacturer



Date of manufacture



Country of manufacture – United States



Country of manufacture – Switzerland



Unique Device Identifier



Catalogue number



Right eye



Left eye



Serial number



Spherical power



Cylindrical power



Axis



Spherical equivalent power



Consult electronic instructions for use

edfu.staar.com
(800) 352 7842
+41 32 332 88 88