

ISTENT INJECT® TRABECULAR MICRO-BYPASS SYSTEM INSTRUCTIONS FOR USE

DEVICE DESCRIPTION

Catalogue #	Description
G2-M-1S	Istent Inject® System Model G2-M-1S, mit zwei (2) Heptarin-befestigten Trabekular Mikro-Bypass Stents (Modell GT5400) preloaded in einem Inserter.

The Istent Inject System contains two trabecular stents that are manufactured from titanium (Ti6Al4V ELI) and are heparin coated. The stent has a single piece design, is approximately 360 microns in height and 230 microns in diameter. The injector has been specifically designed to accommodate two model GT5400 stents into Schlemm's canal, which creates a patent opening in the trabecular meshwork and re-establishes normal physiological outflow.

POTENTIAL COMPLICATIONS

Intraoperative or postoperative adverse events may be device-related or non-device related.

Potential intraoperative events are as follows:

- Choroidal hemorrhage or effusion
- Crystal lens touch by injector
- Corneal laceration or tear
- Prolonged anterior chamber collapse
- Significant corneal injury
- Significant damage to trabecular meshwork
- Significant iris damage
- Vitreous loss or vitrectomy, in case of combined cataract surgery
- Stent malposition or loose stent inside eye requiring repositioning

Potential postoperative events are as follows:

- Choroidal complication (massive hemorrhage or effusion)
- Chronic hypotonie
- Cystoid macula edema
- Significant cystoid macular edema
- Endophthalmitis
- Flat anterior chamber
- Significant loss of best corrected visual acuity
- IOL dislocation (in pseudophakic eyes)
- IOP increasing (management with oral or intravenous medications or with surgical intervention)
- Secondary surgical intervention including, but not limited to, the following :

- Trabeculectomy
- IOL reposicioning or removal
- Stent positioning or removal
- Significant corneal complications including, if needed, repositioning or repositioning
- Significant damage to the trabecular meshwork
- Significant hyphema
- Significant iris damage
- Stent dislocation or malposition
- Stent obstruction

INDICATIONS FOR USE

The Istent inject is intended to reduce intraocular pressure safely and effectively in patients diagnosed with primary open-angle glaucoma, pseudo-exfoliation glaucoma. The Istent inject can deliver two (2) stents on a single pass, through a single incision. The implant is designed to open a passage through the trabecular meshwork to allow for an increase in the facility of outflow and a subsequent reduction in intraocular pressure.

The expiration date on the device package (TIA) is the sterility expiration date. In addition, there is a second expiration date that is unique to the outside of the unit itself. Sterility is assured if the tray seal is not broken, punctured or damaged until the expiration date. This device should not be used past the indicated sterility expiration date.

GERUJSAAKSANWIJZINGEN

De Istent inject is bedoeld om de intra-oculaire druk te verminderen en/of de uitvoering van de steriliteit gedurende de verpakking. Steriliteit is geassureerd op voorhand dat de tray seal niet is breekt, gesneden of beschadigd.

De Istent inject kan worden gebruikt wanneer de vervaldatum voor steriliteit is overgestoken.

VERWENDUNGSZWECK

De Istent inject is bedoeld om de intra-oculaire druk te verminderen en/of de uitvoering van de steriliteit gedurende de verpakking. Steriliteit is geassureerd op voorhand dat de tray seal niet is breekt, gesneden of beschadigd.

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OPSLAGVEREISTEN

Het apparaat moet op kamertemperatuur (15-30°C) worden opgeslagen.

STORAGE REQUIREMENTS

Het Istent inject-systeem wordt geconcludeerd in de ogenblikken dat de verpakking is geopend.

MRI INFORMATION:

Static Magnetic field of 3 Tesla or less

Niet-klinische tests hebben getoond dat het Istent Inject Trabecular Micro-Bypass System, Model G2-M-1S MRI-veilig is.

GERUJSAAKSANWIJZINGEN

Het Istent inject-systeem wordt geconcludeerd in de ogenblikken dat de verpakking is geopend.

INSTRUCTIONS FOR USE

1) Maak een corneale incision. Stabiliseer de voorste oogkamer totdat deze optergeblazen blijft.

2) Plaats een gonioscoop op het hoornvlies en wijzig de visus met behulp van chirurgische microglaucom, indien nodig, om het trabeculaire netwerk zichtbaar te maken, via goniopsie, aan de nasale zijde van het oog.

3) Enter de eye with the Istent inject.

4) Slid the retraction (back) button to draw back the inserter sleeve and expose the anterior chamber and iris.

In normal eye, the image artifact caused by the device extends less than 15 mm beyond the stent tip, the image artifact caused by the device extends less than 15 mm beyond the anterior chamber and iris.

5) Advance the trigger tip to the center of the trabecular meshwork.

6) Press the trigger (front) button to inject the stent through the trabecular meshwork and into Schlemm's canal.

7) Look through the slot in the insertion tube and verify the stent is securely in place.

8) While remaining in the eye, relocate the tip of the injector for implantation of the second stent, and repeat the steps above.

9) Remove the injector from the eye.

10) Irrigate the anterior chamber with balanced salt solution (BSS) through the corneal wound to remove all viscoelastic.

11) Inflate the anterior chamber with saline solution as needed to achieve normal physiologic pressure.

12) Ensure that the corneal incision is sealed.

Retrieval of an Implanted Stent

1) Prep the patient as one would for stem implantation surgery.

2) Reorient the patient at the preferred location in order to reach the stent. Ideally, use a cuneiform incision, measuring approximately 1.5 mm in length.

3) Use viscoelastic to inflate the anterior chamber to create access to the stent's location. Once the stent is away from a delicate structure if loose, or protot intraocular tissues.

4) Use a gonioscope if needed to visualize the location of the stent in the anterior chamber.

5) Insert a GTS-100i inserter through the corneal incision.

6) Open the jaws by pressing the trigger button and grasp the stent. The stent can be grasped in any convenient and secure location.

7) Remove the stent in the jaws of the GTS-100i inserter from the eye taking care not to contact the iris, cornea, or lens, if possible.

8) Irrigate the anterior chamber with balanced salt solution (BSS) through the corneal wound to remove all viscoelastic. Press down on the posterior edge of the incision as needed to visualize the anterior chamber.

9) Inflates anterior chamber with saline solution as needed to achieve normal physiologic pressure.

10) Ensure that the corneal incision is sealed.

WARNINGS/PRECAUTIONS

*For prescription use only.

*This device has not been studied in patients with uveitic glaucoma.

*Do not use the device if the Tyvek® lid has been opened or the packaging appears damaged, as such could affect the sterility of the device may be compromised.

*Due to the sharpness of certain injector components (i.e. the insertion sleeve and trocar), care should be exercised to grasp the injector body. Disuse of device in a sharp container.

*Istent inject is MR-Conditional; see MRI Information below.

*Physician training by Glaukos personnel is required prior to use of this device. Training consists of:

• Didactic session

• Simulated implantation of Istent inject

• Supervised Istent inject implantation of clinical cases

• Didactic training

*Do not re-use the stent(s) or inserter, as this may result in infection and/or intraocular inflammation, as well as occurrence of potential adverse events as shown below.

*There are no known compatibility issues with the Istent inject and other intraoperative devices (e.g., viscoelastics) or glaucoma medications.

*Unused product & packaging may be disposed of in accordance with facility procedures. Implanted medical devices and/or their components must be disposed of as medical waste.

*Due to the sharpness of certain injector components (i.e. the insertion sleeve and trocar), care should be exercised to grasp the injector body.

*The Istent inject System contains two trabecular stents that are manufactured from titanium (Ti6Al4V ELI) and are heparin coated. The stent has a single piece design, is approximately 360 microns in height and 230 microns in diameter. The injector has been specifically designed to accommodate two model GT5400 stents into Schlemm's canal, which creates a patent opening in the trabecular meshwork and re-establishes normal physiological outflow.

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