

Glaukos® Corporation iStent inject® W Trabecular Micro-Bypass System	
Instructions for Use	
DIRECTIONS FOR USE TABLE OF CONTENTS	
1. DEVICE DESCRIPTION	
2. INDICATIONS FOR USE	
3. CONTRAINDICATIONS	
4. WARNINGS	
5. PRECAUTIONS	
6. ADVERSE REACTIONS	
7. INSTRUCTIONS FOR USE	
8. ADVERSE EVENT REPORTING	
9. HOW SUPPLIED	
10. STORAGE REQUIREMENTS	
11. EXPIRATION DATE	
12. RETURN GOODS POLICY	
13. iSTENT INJECT G2-W IS SYSTEM- PIVOTAL CLINICAL TRIAL RESULTS	
14. LABELING	
15. MRS SAFETY INFORMATION	
16. CAUTION	

#### 1. DEVICE DESCRIPTION

The iStent inject® W Trabecular Micro-Bypass System Model G2-W contains two preloaded intraocular stents that are manufactured from titanium (Ti6Al4V ELI) and are coated with stearylaluminum haptan (note: the heparin is from a porcine source). The stent is a single piece design, is 360 µm in diameter, 360 µm in height, and the central inlet and outlet lumen has a diameter of 80 µm (Figure 1). The head of the stent has four side outlets that each have a diameter of 50 µm.

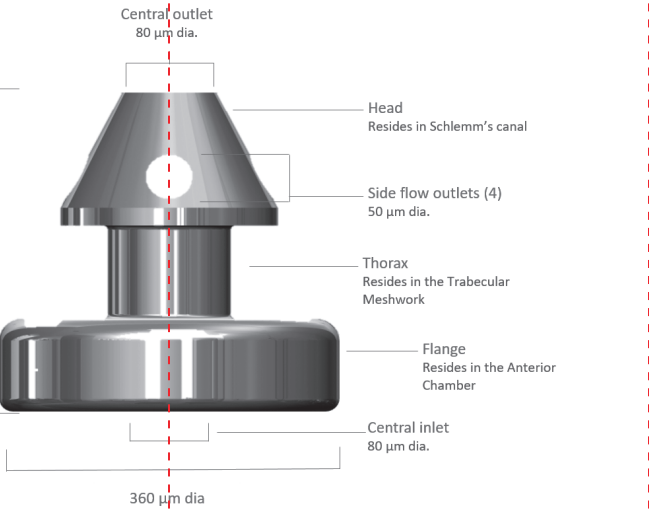


Figure 1. iStent inject W Stent Dimensions

The iStent inject W stent has a rear flange which resides in the anterior chamber, and head that resides in Schlemm's canal. The thorax of the stent is retained by the trabecular meshwork. The stent is symmetrical and is designed to be implanted in the left and right eyes (Figure 2). Two preloaded intraocular stents are provided in the injector (Figures 3a & 3b).

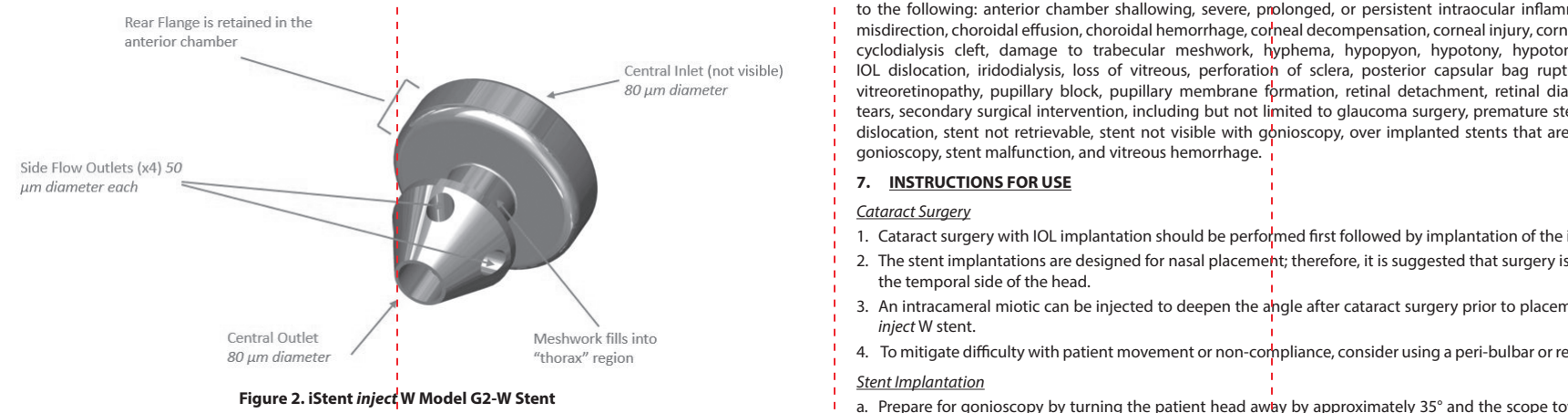


Figure 2. iStent inject W Model G2-W Stent

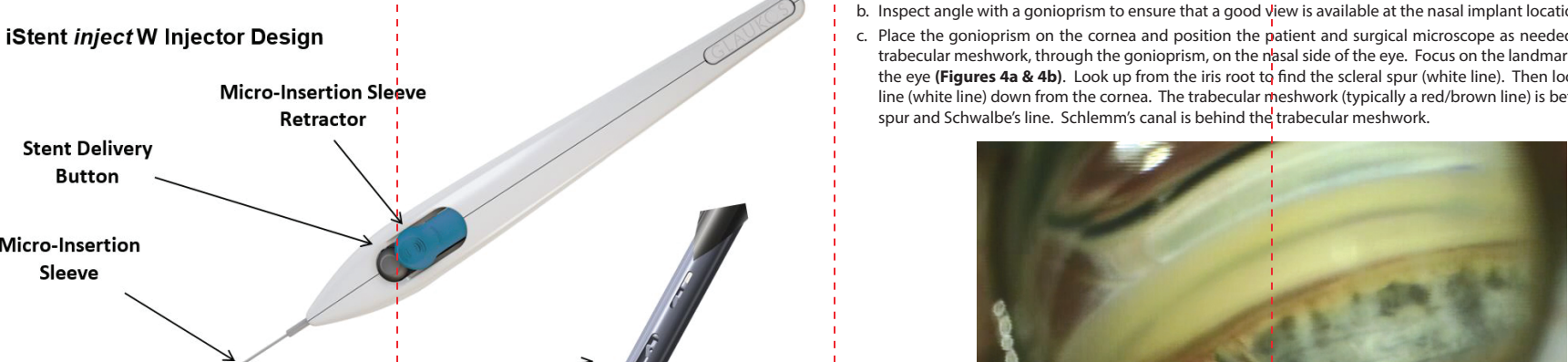


Figure 3a. iStent inject W G2-W Injector Design

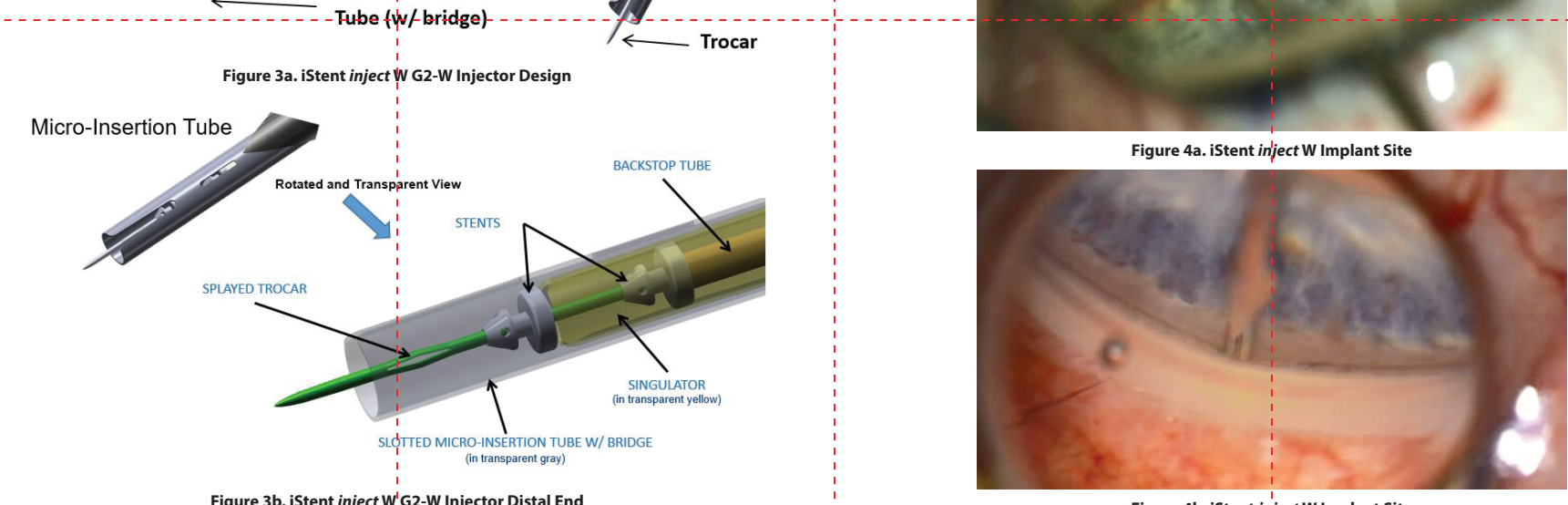


Figure 3b. iStent inject W G2-W Injector Detail End

When properly implanted, the iStent inject W stent is intended to create a bypass through the trabecular meshwork into Schlemm's canal to improve aqueous outflow through the natural physiologic pathway. The implant is provided in a pre-loaded configuration allowing for precise implantation into Schlemm's canal. The injector has been designed by Glaukos® Corporation to hold two stents to be implanted one at a time into Schlemm's canal.

Data from the clinical study of the Model G2-M-5 system, a prior iteration of the iStent inject W Model G2-W System, was used to support the safety and effectiveness of the G2-W system (see Section 13, "iStent inject W Model G2-M-5 System Pivotal Clinical Trial Results," below). The G2-W stents include a wider proximal end in the anterior chamber of 360 µm, rather than 330 µm for Model G2-M-5.

#### 2. INDICATIONS FOR USE

The iStent inject® W Trabecular Micro-Bypass System Model G2-W is indicated for use in conjunction with cataract surgery for the reduction of intraocular pressure (IOP) in adult patients with mild to moderate primary open-angle glaucoma.

#### 3. CONTRAINDICATIONS

The iStent inject® W Trabecular Micro-Bypass System Model G2-W is contraindicated under the following circumstances or conditions:

- In eyes with angle closure glaucoma.
- In eyes with traumatic, malignant, uveitic, or neovascular glaucoma or discernible congenital anomalies of the anterior chamber (AC) angle.
- In patients with retrolental tumor, thyroid eye disease, Sturge-Weber Syndrome or any other type of condition that may cause elevated episcleral venous pressure.

#### 4. WARNINGS

- The following conditions may prohibit sufficient visualization of the angle required for safe and successful stent implantation: corneal haze, corneal opacity, or any other conditions that may inhibit the gonioscopic view in the intended implantation location.
- The surgeon should perform a slit lamp gonioscopy examination prior to taking a patient to surgery to exclude congenital anomalies of the angle, including peripheral anterior synechiae (PAS), rubosis, and any other angle abnormalities that could lead to improper placement of the stent and pose a hazard.
- Patients with peripheral iridodonesis are at risk of stent dislocation to the posterior chamber and related sequelae.
- The iStent inject® W is intended for implantation in conjunction with cataract surgery, which may impact corneal health. Therefore, caution is indicated in eyes with evidence of corneal compromise (e.g., corneal guttae or low endothelial cell density) or with risk factors for corneal compromise following cataract surgery (e.g., advanced age, severe nuclear sclerosis).
- Non-clinical testing has demonstrated that the iStent inject® W is MR Conditional. Please see the "MRI SAFETY INFORMATION" section at the end of this document on conditions for safe scanning.
- PRECAUTIONS**
  - The patient needs to understand the patient that the stent is MR Conditional (as noted on their Patient ID card), and if the patient needs to undergo an MRI, they should let their doctor know they have an iStent inject W stent implanted in their eye.
  - After the surgery, the surgeon should give the patient the Patient ID card (enclosed in the iStent inject W packaging) with the appropriate instructions. The surgeon should advise the patient keep the card as safe place, e.g., in his/her wallet, for future reference. The surgeon should advise the patient that this Patient ID card contains important information related to the iStent inject W and that the card should be shown to their current and future health care providers.
  - The surgeon should monitor the patient postoperatively for proper maintenance of intraocular pressure. If intraocular pressure is not adequately maintained after surgery, the surgeon should consider an appropriate additional therapy to reduce intraocular pressure.
  - The safety and effectiveness of the iStent inject W system has not been established as an alternative to the primary treatment of glaucoma with medications. The effectiveness of this device has been demonstrated only in patients with mild to moderate open-angle glaucoma who are undergoing concurrent cataract surgery for visually significant cataract.

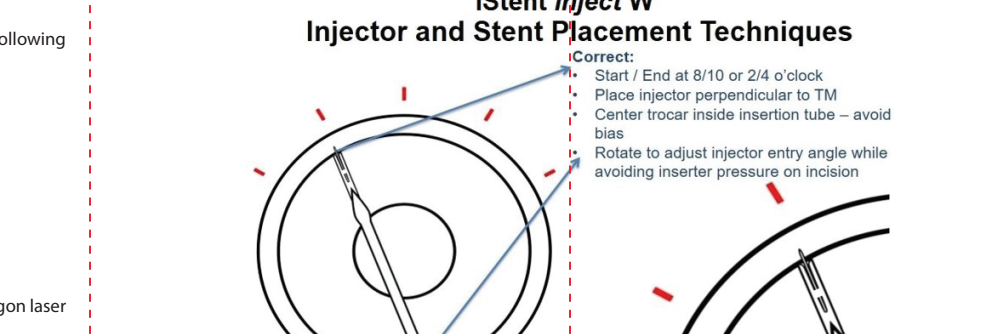
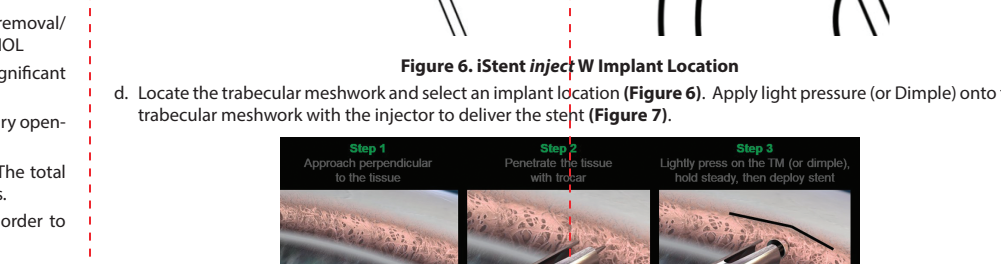


Figure 6. iStent inject W Implant Location

d. Locate the trabecular meshwork and select an implant location (Figure 6). Apply light pressure (or Dimple) onto the trabecular meshwork with the injector to deliver the stent (Figure 7).



Refer to the Pivotal Clinical Trial Results section for the adverse events that occurred in the pivotal clinical trial. Additional adverse events that may be reasonably associated with the use of the device include but are not limited to the following: anterior chamber shallowing, severe, prolonged, or persistent intraocular inflammation, aqueous misdirection, choroidal effusion, choroidal hemorrhage, corneal decompensation, corneal injury, corneal opacification, cyclodialysis cleft, damage to trabecular meshwork, hyphema, hypopyon, hypotony, hypotony maculopathy, IOL dislocation, iridodiolysis, loss of vitreous, perforation of sclera, posterior capsular bag rupture, proliferative vitreoretinopathy, pupillary block, pupillary membrane formation, retinal detachment, retinal dialysis, retinal flap tears, secondary surgical intervention, including but not limited to glaucoma surgery, premature stent release, stent dislocation, stent not retrievable, stent not visible with gonioscopy, over implanted stents that are not visible with gonioscopy, stent malfunction, and vitreous hemorrhage.

7. The stent is comprised of medical grade titanium (Ti6-Al4V-ELI) with a stearylaluminum heparin coating. The total amount of heparin is estimated to be less than 0.9 microgram per stent, or approximately 0.01 to 0.02 units.

#### 6. ADVERSE REACTIONS

Refer to the Pivotal Clinical Trial Results section for the adverse events that occurred in the pivotal clinical trial. Additional adverse events that may be reasonably associated with the use of the device include but are not limited to the following: anterior chamber shallowing, severe, prolonged, or persistent intraocular inflammation, aqueous misdirection, choroidal effusion, choroidal hemorrhage, corneal decompensation, corneal injury, corneal opacification, cyclodialysis cleft, damage to trabecular meshwork, hyphema, hypopyon, hypotony, hypotony maculopathy, IOL dislocation, iridodiolysis, loss of vitreous, perforation of sclera, posterior capsular bag rupture, proliferative vitreoretinopathy, pupillary block, pupillary membrane formation, retinal detachment, retinal dialysis, retinal flap tears, secondary surgical intervention, including but not limited to glaucoma surgery, premature stent release, stent dislocation, stent not retrievable, stent not visible with gonioscopy, over implanted stents that are not visible with gonioscopy, stent malfunction, and vitreous hemorrhage.

8. The stent is comprised of medical grade titanium (Ti6-Al4V-ELI) with a stearylaluminum heparin coating. The total amount of heparin is estimated to be less than 0.9 microgram per stent, or approximately 0.01 to 0.02 units.

#### 7. HOW SUPPLIED

The iStent inject W Trabecular Micro-Bypass System is supplied as follows: Two stents are preloaded within the single-use injector system, and the system is provided sterile and non-proprietary in a Tyvek tray. Each stent system is individually serialized, and the serial number is provided on the tray lid and unit carton. The device has been sterilized by gamma radiation.

#### 8. ADVERSE EVENT REPORTING

Adverse events and/or potentially sight-threatening complications that may reasonably be regarded as device related should be reported to Glaukos Corporation at:

U.S. Toll Free Phone Number: 1-800-GLAUKOS (452-8367)

Alternate Phone Number: 949-367-9600

Fax Number: 949-297-4540

#### 9. HOW SUPPLIED

The iStent inject W Trabecular Micro-Bypass System is supplied as follows: Two stents are preloaded within the single-use injector system, and the system is provided sterile and non-proprietary in a Tyvek tray. Each stent system is individually serialized, and the serial number is provided on the tray lid and unit carton. The device has been sterilized by gamma radiation.

#### 10. STORAGE REQUIREMENTS

The device should be stored at room temperature in the range of 15-30° C.

#### 11. EXPIRATION DATE

The expiration date on the device package (Tyvek tray lid) is the sterility expiration date. In addition, there is a sterility expiration date that is clearly indicated on the outside of the unit carton. Sterility is assured if the tray seal is not punctured or damaged before the expiration date. This device should not be used past the indicated sterility expiration date.

#### 12. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.

Gonioscopy was performed unless other changes (e.g., central corneal edema) made this difficult to do so.

UBM was performed if stent visualization was not possible with gonioscopy or/and elevated IOP > 30 mmHg at one month or 1 later.

Optic nerve head imaging was performed at screening and Months 6, 12, 18, and 24 unless certain conditions (e.g., small pupil, dry eye) made it too difficult to do so.

Two-sample t-test

Fisher's exact test

Other parameters are provided for the iStent inject portion of the procedure (Table 5). In one of the 387 eyes, after successful cataract extraction and IOL implantation, and subsequent randomization to the iStent inject group, stent implantation was not attempted as a result of excessive cogging (i.e., 0 stents implanted). Of the 386 eyes that were implanted with stents, 380 eyes (98.2%) were implanted with 2 stents. Four eyes (1.0%) were implanted with 3 stents and 2 eyes (<1%) were implanted with 1 stent.

In most eyes (85.5% n = 331), only a single injector was employed. No associated clinical sequelae were noted in any cases in which a second injector was used. No difficulties with implantation were reported in the majority of cases (81.4% n = 315). No associated clinical sequelae were noted in any cases in which stent implantation difficulty was reported.

#### 13. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.

Gonioscopy was performed unless other changes (e.g., central corneal edema) made this difficult to do so.

UBM was performed if stent visualization was not possible with gonioscopy or/and elevated IOP > 30 mmHg at one month or 1 later.

Optic nerve head imaging was performed at screening and Months 6, 12, 18, and 24 unless certain conditions (e.g., small pupil, dry eye) made it too difficult to do so.

Two-sample t-test

Fisher's exact test

Other parameters are provided for the iStent inject portion of the procedure (Table 5). In one of the 387 eyes, after successful cataract extraction and IOL implantation, and subsequent randomization to the iStent inject group, stent implantation was not attempted as a result of excessive cogging (i.e., 0 stents implanted). Of the 386 eyes that were implanted with stents, 380 eyes (98.2%) were implanted with 2 stents. Four eyes (1.0%) were implanted with 3 stents and 2 eyes (<1%) were implanted with 1 stent.

In most eyes (85.5% n = 331), only a single injector was employed. No associated clinical sequelae were noted in any cases in which a second injector was used. No difficulties with implantation were reported in the majority of cases (81.4% n = 315). No associated clinical sequelae were noted in any cases in which stent implantation difficulty was reported.

#### 14. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.

Gonioscopy was performed unless other changes (e.g., central corneal edema) made this difficult to do so.

UBM was performed if stent visualization was not possible with gonioscopy or/and elevated IOP > 30 mmHg at one month or 1 later.

Optic nerve head imaging was performed at screening and Months 6, 12, 18, and 24 unless certain conditions (e.g., small pupil, dry eye) made it too difficult to do so.

Two-sample t-test

Fisher's exact test

Other parameters are provided for the iStent inject portion of the procedure (Table 5). In one of the 387 eyes, after successful cataract extraction and IOL implantation, and subsequent randomization to the iStent inject group, stent implantation was not attempted as a result of excessive cogging (i.e., 0 stents implanted). Of the 386 eyes that were implanted with stents, 380 eyes (98.2%) were implanted with 2 stents. Four eyes (1.0%) were implanted with 3 stents and 2 eyes (<1%) were implanted with 1 stent.

In most eyes (85.5% n = 331), only a single injector was employed. No associated clinical sequelae were noted in any cases in which a second injector was used. No difficulties with implantation were reported in the majority of cases (81.4% n = 315). No associated clinical sequelae were noted in any cases in which stent implantation difficulty was reported.

#### 15. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.

Gonioscopy was performed unless other changes (e.g., central corneal edema) made this difficult to do so.

UBM was performed if stent visualization was not possible with gonioscopy or/and elevated IOP > 30 mmHg at one month or 1 later.

Optic nerve head imaging was performed at screening and Months 6, 12, 18, and 24 unless certain conditions (e.g., small pupil, dry eye) made it too difficult to do so.

Two-sample t-test

Fisher's exact test

Other parameters are provided for the iStent inject portion of the procedure (Table 5). In one of the 387 eyes, after successful cataract extraction and IOL implantation, and subsequent randomization to the iStent inject group, stent implantation was not attempted as a result of excessive cogging (i.e., 0 stents implanted). Of the 386 eyes that were implanted with stents, 380 eyes (98.2%) were implanted with 2 stents. Four eyes (1.0%) were implanted with 3 stents and 2 eyes (<1%) were implanted with 1 stent.

In most eyes (85.5% n = 331), only a single injector was employed. No associated clinical sequelae were noted in any cases in which a second injector was used. No difficulties with implantation were reported in the majority of cases (81.4% n = 315). No associated clinical sequelae were noted in any cases in which stent implantation difficulty was reported.

#### 16. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.

Gonioscopy was performed unless other changes (e.g., central corneal edema) made this difficult to do so.

UBM was performed if stent visualization was not possible with gonioscopy or/and elevated IOP > 30 mmHg at one month or 1 later.

Optic nerve head imaging was performed at screening and Months 6, 12, 18, and 24 unless certain conditions (e.g., small pupil, dry eye) made it too difficult to do so.

Two-sample t-test

Fisher's exact test

Other parameters are provided for the iStent inject portion of the procedure (Table 5). In one of the 387 eyes, after successful cataract extraction and IOL implantation, and subsequent randomization to the iStent inject group, stent implantation was not attempted as a result of excessive cogging (i.e., 0 stents implanted). Of the 386 eyes that were implanted with stents, 380 eyes (98.2%) were implanted with 2 stents. Four eyes (1.0%) were implanted with 3 stents and 2 eyes (<1%) were implanted with 1 stent.

In most eyes (85.5% n = 331), only a single injector was employed. No associated clinical sequelae were noted in any cases in which a second injector was used. No difficulties with implantation were reported in the majority of cases (81.4% n = 315). No associated clinical sequelae were noted in any cases in which stent implantation difficulty was reported.

#### 17. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.

Gonioscopy was performed unless other changes (e.g., central corneal edema) made this difficult to do so.

UBM was performed if stent visualization was not possible with gonioscopy or/and elevated IOP > 30 mmHg at one month or 1 later.

Optic nerve head imaging was performed at screening and Months 6, 12, 18, and 24 unless certain conditions (e.g., small pupil, dry eye) made it too difficult to do so.

Two-sample t-test

Fisher's exact test

Other parameters are provided for the iStent inject portion of the procedure (Table 5). In one of the 387 eyes, after successful cataract extraction and IOL implantation, and subsequent randomization to the iStent inject group, stent implantation was not attempted as a result of excessive cogging (i.e., 0 stents implanted). Of the 386 eyes that were implanted with stents, 380 eyes (98.2%) were implanted with 2 stents. Four eyes (1.0%) were implanted with 3 stents and 2 eyes (<1%) were implanted with 1 stent.

surgeon's choice can be used by the surgeon as follows:

- Prep the patient as one would for stent implantation surgery.
- Re-open the eye at the preferred location in order to reach the stent. A clear corneal incision measuring approximately 1.5 mm in length is recommended.

- Use cohesive viscoelastic to inflate the anterior chamber to create access to the stent's location, move the stent away from a delicate structure if loose, and/or protect intraocular tissues.

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

- Insert a micro forceps device through the corneal incision and grasp the stent in a convenient and secure manner before removing the stent from the anterior chamber.

- 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 facilitate complete removal of viscoelastic. Repeat as needed until all viscoelastic has been removed.

- Inflate the anterior chamber with saline solution as needed to achieve normal physiologic pressure.
- Ensure that the corneal incision is sealed.

#### 8. ADVERSE EVENT REPORTING

Adverse events and/or potentially sight-threatening complications that may reasonably be regarded as device related should be reported to Glaukos Corporation at:

U.S. Toll Free Phone Number: 1-800-GLAUKOS (452-8367)

Alternate Phone Number: 949-367-9600

Fax Number: 949-297-4540

#### 9. HOW SUPPLIED

The iStent inject W Trabecular Micro-Bypass System is supplied as follows: Two stents are preloaded within the single-use injector system, and the system is provided sterile and non-proprietary in a Tyvek tray. Each stent system is individually serialized, and the serial number is provided on the tray lid and unit carton. The device has been sterilized by gamma radiation.

#### 10. STORAGE REQUIREMENTS

The device should be stored at room temperature in the range of 15-30° C.

#### 11. EXPIRATION DATE

The expiration date on the device package (Tyvek tray lid) is the sterility expiration date. In addition, there is a sterility expiration date that is clearly indicated on the outside of the unit carton. Sterility is assured if the tray seal is not punctured or damaged before the expiration date. This device should not be used past the indicated sterility expiration date.

#### 12. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.

Gonioscopy was performed unless other changes (e.g., central corneal edema) made this difficult to do so.

UBM was performed if stent visualization was not possible with gonioscopy or/and elevated IOP > 30 mmHg at one month or 1 later.

Optic nerve head imaging was performed at screening and Months 6, 12, 18, and 24 unless certain conditions (e.g., small pupil, dry eye) made it too difficult to do so.

Two-sample t-test

Fisher's exact test

Other parameters are provided for the iStent inject portion of the procedure (Table 5). In one of the 387 eyes, after successful cataract extraction and IOL implantation, and subsequent randomization to the iStent inject group, stent implantation was not attempted as a result of excessive cogging (i.e., 0 stents implanted). Of the 386 eyes that were implanted with stents, 380 eyes (98.2%) were implanted with 2 stents. Four eyes (1.0%) were implanted with 3 stents and 2 eyes (<1%) were implanted with 1 stent.

In most eyes (85.5% n = 331), only a single injector was employed. No associated clinical sequelae were noted in any cases in which a second injector was used. No difficulties with implantation were reported in the majority of cases (81.4% n = 315). No associated clinical sequelae were noted in any cases in which stent implantation difficulty was reported.

#### 13. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.

Gonioscopy was performed unless other changes (e.g., central corneal edema) made this difficult to do so.

UBM was performed if stent visualization was not possible with gonioscopy or/and elevated IOP > 30 mmHg at one month or 1 later.

Optic nerve head imaging was performed at screening and Months 6, 12, 18, and 24 unless certain conditions (e.g., small pupil, dry eye) made it too difficult to do so.

Two-sample t-test

Fisher's exact test

Other parameters are provided for the iStent inject portion of the procedure (Table 5). In one of the 387 eyes, after successful cataract extraction and IOL implantation, and subsequent randomization to the iStent inject group, stent implantation was not attempted as a result of excessive cogging (i.e., 0 stents implanted). Of the 386 eyes that were implanted with stents, 380 eyes (98.2%) were implanted with 2 stents. Four eyes (1.0%) were implanted with 3 stents and 2 eyes (<1%) were implanted with 1 stent.

In most eyes (85.5% n = 331), only a single injector was employed. No associated clinical sequelae were noted in any cases in which a second injector was used. No difficulties with implantation were reported in the majority of cases (81.4% n = 315). No associated clinical sequelae were noted in any cases in which stent implantation difficulty was reported.

#### 14. RETURN GOODS POLICY

Please contact Glaukos Corporation.

One-month without visit - subjects on ocular hypotensive medications at Month 11 visit or at Month 23 visit were washed out of medications in study for one month.



Endothelial Cell Density

There was little difference in endothelial cell loss (ECL) between the iStent inject<sup>®</sup> and Control groups. Results were consistent with previous reports of cataract surgery-related ECL. The mean percent change in ECD from baseline to 24 months was -13.1% (SD 12.4; 95% CI -14.4%, -11.8%) for the iStent inject group and -12.3% (SD 12.7%; 95% CI -14.8%, -9.8%) for the control group.

A similar proportion of eyes in each group (10.4% in the iStent inject group and 9.5% in the control group) experienced ECL > 30% at 24 months postoperatively.

2. Effectiveness Results

Results from the primary and secondary endpoints are shown in **Table 9**. The primary effectiveness endpoint was met, with 75.8% (288/380) in the iStent inject group and 61.9% (173/278) in the Control group achieving a clinically significant (≥ 20%) reduction in medication-free diurnal IOP from baseline at 24 months. This difference between groups was statistically significant (p=0.003).

The secondary endpoint, a clinically significant mean change in medication-free diurnal IOP from baseline at 24-month postoperative examination, was met. The mean reduction in medication-free mean diurnal IOP from baseline to 24 months was 7.0 mmHg (SD 4.0) in the iStent inject group compared to 5.4 mmHg (SD 3.7) in the control group (p <0.001).

Table 9. Primary and Secondary Effectiveness Results				
Effectiveness Endpoint (Evaluated at 24 Months Postoperatively)	Cataract Surgery with iStent inject <sup>®</sup> N = 380	Cataract Surgery Only N = 118	Difference (iStent inject vs. control)	P-value for difference
Proportion of subjects with medication-free DIOP reduction ≥ 20% from baseline	75.8%	61.9%	13.9%	0.003 <sup>1</sup>
Medication-free mean DIOP (mmHg) change from baseline <sup>2</sup>	-7.0	-5.4		< 0.001 <sup>3</sup>

Subjects without Month 24 medication-free diurnal IOP or with IOP-related SSI, loss of light perception or hypotony (IOP < 6 mmHg) associated with clinically significant findings prior to 24 months were treated as non-responders. iStent inject subjects with stent reposition or removal prior to 24 months were treated as non-responders.

- The 24-month diurnal IOP values were subtracted from baseline diurnal IOP in all subjects, except for the non-responders described above. For the non-responders described above, the baseline diurnal IOP values were used for the 24-month diurnal IOP values (i.e., a change of 0 mmHg was used).
- One-sided Fisher's exact test with a significance level of 0.025.
- One-sided two-sample t-test with a significance level of 0.025.

Additional detail regarding the reasons patients did not achieve the primary endpoint (IOP non-responders) is shown in **Table 10**.

Table 10. Non-Responder Categories at 24 Months Effectiveness Cohort			
	Cataract Surgery with iStent inject <sup>®</sup> N = 380	Cataract Surgery Only N = 118	
Total Non-Responders	91 (24.2%)	45 (38.1%)	
Non-Responders: 24-month unmedicated diurnal IOP reduction from baseline < 20%	56 (14.7%)	26 (22.0%)	
Non-Responders for reasons other than IOP reduction <sup>1</sup>	36 (9.5%)	19 (16.1%)	
Secondary glaucoma surgery <sup>2</sup>	5 (1.3%)	3 (2.5%)	
Other IOP-affecting secondary surgery <sup>3</sup>	0 (0.0%)	0 (0.0%)	
Stent reposition or removal	0 (0.0%)	0 (0.0%)	
Loss of light perception	0 (0.0%)	0 (0.0%)	
Clinically significant hypotony	0 (0.0%)	0 (0.0%)	
Did not complete medication washout – Safety concerns	12 (3.2%)	4 (3.4%)	
Did not complete medication washout – Instructions not provided/failed <sup>4</sup>	0 (0.0%)	2 (1.7%)	
Missing 24-month diurnal IOP data <sup>4</sup>	19 (5.0%)	10 (8.5%)	
Death	4 (1.1%)	6 (5.1%)	
Investigator's decision	1 (0.3%)	0 (0.0%)	
Last contact	8 (2.1%)	2 (1.7%)	
Subject's decision	6 (1.6%)	2 (1.7%)	

- <sup>1</sup> = number of eyes with the corresponding responses. % = n / N x 100%.
- Subjects were included in the primary category of "Non-Responders for reasons other than IOP reduction".
  - Secondary glaucoma surgeries include trabeculectomy, and laser trabeculoplasty.
  - Other IOP-affecting secondary surgeries.
  - The outcomes of these subjects were imputed for the 24-month analysis. There were 2 subjects on oral medication at 23 months and both subjects underwent washout. Hence, although any subjects on oral medication at 24 months would have been considered non-responders due to the potential to confound the endpoint analysis, there were no subjects in this category.
3. Summary of Supplemental Clinical Information
- A. For the pivotal trial of the iStent inject, the Ocular Surface Disease Index (OSDI<sup>®</sup>) was self-administered by study subjects. The OSDI questionnaire contains 12 questions involving ocular symptoms, vision-related function and environmental triggers experienced by the subject during the past week, and is assessed on a scale of 0 to 100 with higher scores representing greater disability. **Table 11** summarizes the change in OSDI subscales and overall score from baseline. The mean improvements at 24 months from baseline were slightly higher in the iStent inject group compared to the control group involving ocular symptoms (-16.41 vs. -10.69) and vision-related function (-22.60 vs. -18.56) and similar involving environmental triggers (-7.41 vs. -7.70). The mean improvement in OSDI overall score at 24 months was also higher in the iStent inject group compared to the control group (-16.25 vs. -12.38). The questionnaire used to collect these data has not been validated, and therefore the true rates of these symptoms may differ from those presented in the **Table 11**.

Table 11 Change in OSDI Questionnaire Sub-Scale Score from Baseline Safety Population								
Statistics	Cataract Surgery with iStent inject <sup>®</sup> Total Number of Subjects = 386				Cataract Surgery Only Total Number of Subjects = 119			
	1M n (%)	6M n (%)	12M n (%)	24M n (%)	1M n (%)	6M n (%)	12M n (%)	24M n (%)
<b>Ocular Symptoms (Q1, Q2, Q3)</b>								
N	382	376	367	361	117	118	115	109
Mean	-11.87	-15.04	-16.93	-16.41	-6.41	-10.55	-11.53	-10.69
SD	22.39	21.23	19.96	21.13	20.53	18.45	17.16	17.74
Median	-10.0	-15.0	-15.0	-15.0	-5.0	-10.0	-10.0	-10.0
Min	-100	-100	-100	-100	-55.0	-60.0	-75.0	-65.0
Max	75.0	50.0	33.8	60.0	80.0	40.0	35.0	35.0
Not Reported	2	1	3	5	2	0	1	0
<b>Vision-Related Function (Q4, Q5, Q6, Q7, Q8, Q9)</b>								
N	379	374	363	359	117	118	115	109
Mean	-16.07	-21.46	-22.82	-22.60	-14.08	-17.32	-20.92	-18.56
SD	29.80	27.93	28.22	27.30	29.94	27.49	27.66	28.92
Median	-12.5	-18.8	-18.8	-18.8	-6.5	-12.5	-16.7	-12.5
Min	-93.8	-100	-100	-100	-100	-100	-100	-100
Max	100.0	77.1	62.5	62.5	87.5	75.0	37.5	68.8
Not Reported	5	3	7	7	2	0	1	0
<b>Environmental Triggers (Q10, Q11, Q12)</b>								
N	370	367	358	353	114	116	113	106
Mean	-5.20	-7.27	-7.83	-7.41	-4.61	-7.26	-7.82	-7.70
SD	21.52	20.70	21.65	22.61	21.95	21.61	21.60	20.66
Median	-10.4	-13.3	-12.5	-13.3	-12.5	-10.4	-10.7	-10.4
Min	-83.3	-100	-100	-100	-75.0	-100	-100	-75.0
Max	100.0	58.3	75.0	66.7	66.7	41.7	33.3	75.0
Not Reported	14	10	12	13	5	2	3	3
<b>Overall Composite Score</b>								
N	382	376	367	361	117	118	115	109
Mean	-11.87	-15.44	-16.66	-16.25	-8.48	-11.91	-13.60	-12.38
SD	20.29	19.39	19.38	19.73	20.02	18.01	17.18	18.38
Median	-10.4	-12.5	-13.3	-12.5	-4.7	-10.4	-10.7	-10.4
Min	-93.8	-93.8	-95.8	-100	-60.4	-66.7	-64.6	-42.5
Max	72.0	37.5	31.3	45.8	78.8	37.5	17.6	56.3
Not Reported	2	3	5	5	2	0	1	0





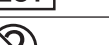

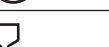

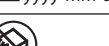



Table 11 Change in OSDI Questionnaire Sub-Scale Score from Baseline Safety Population								
Statistics	Cataract Surgery with iStent inject <sup>®</sup> Total Number of Subjects = 386				Cataract Surgery Only Total Number of Subjects = 119			
	1M n (%)	6M n (%)	12M n (%)	24M n (%)	1M n (%)	6M n (%)	12M n (%)	24M n (%)
<b>Ocular Symptoms (Q1, Q2, Q3)</b>								
N	382	376	367	361	117	118	115	109
Mean	-11.87	-15.04	-16.93	-16.41	-6.41	-10.55	-11.53	-10.69
SD	22.39	21.23	19.96	21.13	20.53	18.45	17.16	17.74
Median	-10.0	-15.0	-15.0	-15.0	-5.0	-10.0	-10.0	-10.0
Min	-100	-100	-100	-100	-55.0	-60.0	-75.0	-65.0
Max	75.0	50.0	33.8	60.0	80.0	40.0	35.0	35.0
Not Reported	2	1	3	5	2	0	1	0
<b>Vision-Related Function (Q4, Q5, Q6, Q7, Q8, Q9)</b>								
N	379	374	363	359	117	118	115	109
Mean	-16.07	-21.46	-22.82	-22.60	-14.08	-17.32	-20.92	-18.56
SD	29.80	27.93	28.22	27.30	29.94	27.49	27.66	28.92
Median	-12.5	-18.8	-18.8	-18.8	-6.5	-12.5	-16.7	-12.5
Min	-93.8	-100	-100	-100	-100	-100	-100	-100
Max	100.0	77.1	62.5	62.5	87.5	75.0	37.5	68.8
Not Reported	5	3	7	7	2	0	1	0
<b>Environmental Triggers (Q10, Q11, Q12)</b>								
N	370	367	358	353	114	116	113	106
Mean	-5.20	-7.27	-7.83	-7.41	-4.61	-7.26	-7.82	-7.70
SD	21.52	20.70	21.65	22.61	21.95	21.61	21.60	20.66
Median	-10.4	-13.3	-12.5	-13.3	-12.5	-10.4	-10.7	-10.4
Min	-83.3	-100	-100	-100	-75.0	-100	-100	-75.0
Max	100.0	58.3	75.0	66.7	66.7	41.7	33.3	75.0
Not Reported	14	10	12	13	5	2	3	3
<b>Overall Composite Score</b>								
N	382	376	367	361	117	118	115	109
Mean	-11.87	-15.44	-16.66	-16.25	-8.48	-11.91	-13.60	-12.38
SD	20.29	19.39	19.38	19.73	20.02	18.01	17.18	18.38
Median	-10.4	-12.5	-13.3	-12.5	-4.7	-10.4	-10.7	-10.4
Min	-93.8	-93.8	-95.8	-100	-60.4	-66.7	-64.6	-42.5
Max	72.0	37.5	31.3	45.8	78.8	37.5	17.6	56.3
Not Reported	2	3	5	5	2	0	1	0

- Each sub-scale is a summation of some specific questions to the OSDI.
3. Based on proportional analysis using a non-responder imputation for missing data. Subjects without Month 24 medication-free diurnal IOP or with IOP-related SSI, loss of light perception or hypotony (IOP < 6 mmHg) associated with clinically significant findings prior to 24 months were treated as non-responders. iStent inject subjects with stent reposition or removal prior to 24 months were treated as non-responders.
- B. In the iStent inject pivotal trial, at 24 months, the proportion of subjects with medication-free diurnal IOP ≤ 18 mmHg was 63.2% in the treatment group and 50.0% in the control group (difference 13.2%; 95% CI 2.9%, 23.4%).<sup>1,2</sup>
- C. In the iStent inject pivotal trial, mean observed unmedicated IOP was higher at baseline and lower at 24 months in the iStent inject group. IOP at baseline was 24.8 (SD 3.4) mmHg in the iStent inject group and 24.5 (SD 3.1) mmHg in the control group. Unmedicated IOP at 24 months was 17.1 mmHg (SD 3.6) at 24 months in the iStent inject group and 17.8 mmHg (SD 3.5) in the control group<sup>3</sup>.
- D. Of the subjects who were responders (e.g., 24-month unmedicated mean DIOP was reduced by ≥20% as compared with baseline in the absence of IOP-affecting surgery during the study), 84% of subjects in the iStent inject group (243/288) and 67% of subjects in the Control Group (49/73) were not using ocular hypotensive medication at 23 months.

<sup>1,2</sup>Based on mean observed unmedicated IOP values from only those subjects with unmedicated IOP and without SSI or other events (including loss of light perception or hypotony (IOP < 6 mmHg) associated with clinically significant findings).

14. LABELING

Not all symbols may be included in the labeling of this product.

Symbol	Definition	Symbol	Definition
	Catalogue/Model Number		Consult Instructions For use
	Serial Number (for the stent)		Manufacturer
	Lot Number		Sterilized by Gamma Irradiation
	Do not reuse		For prescription use only
	Use-by date (year-month-day) yyyy-mm-dd		Temperature Storage Requirement
	Do not use if package is damaged		MR Conditional

15. MRI SAFETY INFORMATION



Non-clinical testing has demonstrated that the iStent inject W Trabecular Micro-Bypass System, Model G2-W is MR Conditional. A patient with this device can be safely scanned in an MR system meeting the following conditions:

- Static magnetic field of 3 T or less
- Maximum spatial gradient magnetic field of 4,000 gauss/cm (40 T/m)

Maximum MR system reported, whole body averaged specific absorption rate (SAR) of 4 W/kg

Under the scan conditions defined above, the iStent inject W Trabecular Micro-Bypass System, Model G2-W is not expected to produce a clinically significant temperature rise after 15 minutes of continuous scanning.

In non-clinical testing, the image artifact caused by the device extends less than 15 mm from the device when imaged with a gradient echo pulse sequence and a 3.0 T MRI system.

16. CAUTION

Federal law restricts this device to sale by, or on the order of, a physician.

Physician training by certified Glaukos personnel is required prior to use of this device. Training consists of three main parts:

- Didactic session
- Simulated implantation of iStent inject W
- Supervised iStent inject W implantation of clinical cases until implantation proficiency is demonstrated

Manufacturer:

Glaukos Corporation  
229 Avenida Fabricante  
San Clemente, CA 92672 U.S.A.  
Tel: +1.949.367.9600, Fax: +1.949.367.9984  
www.glaukos.com  
Toll-Free: 1-800-GLAUKOS (452-8567)

Patented: Patent info: www.glaukos.com/patents

Glaukos<sup>®</sup> and iStent inject<sup>®</sup> W are registered trademarks of Glaukos Corporation.

Tyvek<sup>®</sup> is a registered trademark of DuPont USA.