

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 RESULT
14. POST-APPROVAL STUDY RESULTS
15. LABELING
16. MRI SAFETY INFORMATION
17. 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 steroisulonic heparin (note: the heparin is from a porcine source). The stent has a single piece design, is 360 µm in diameter, 360 µm in height, and the central inlet and outlet lumens 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.

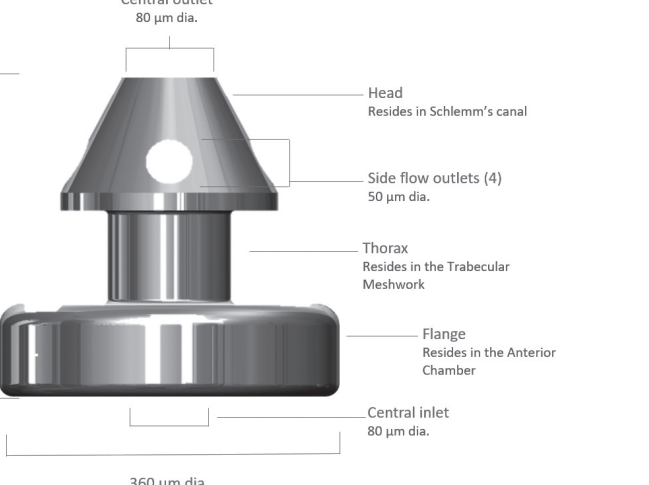


Figure 1. iStent inject W Stent Dimensions

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 eye (Figure 2). Two preloaded intraocular stents are provided in the injector (Figures 3a & 3b).

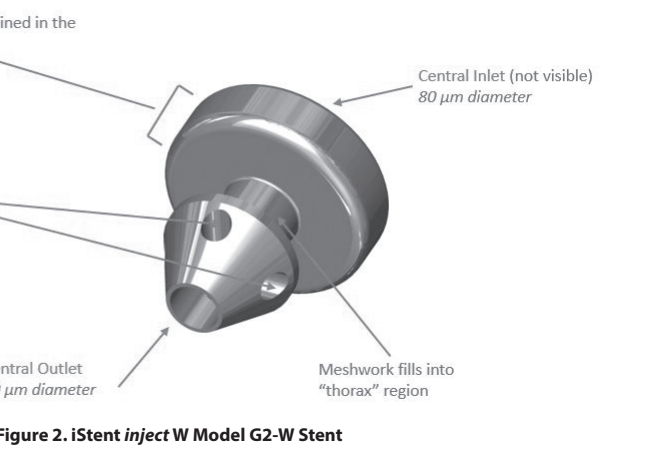


Figure 2. iStent inject W Model G2-W Stent

iStent inject W Injector Design

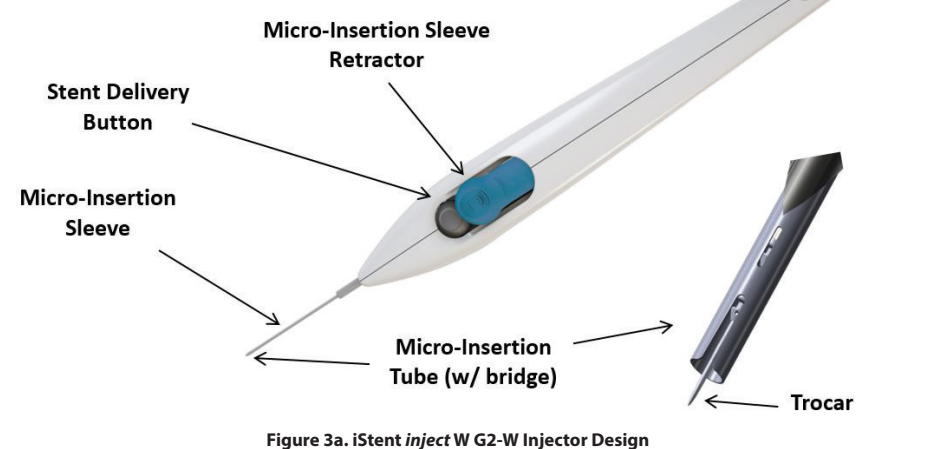


Figure 3a. iStent inject W G2-W Injector Design

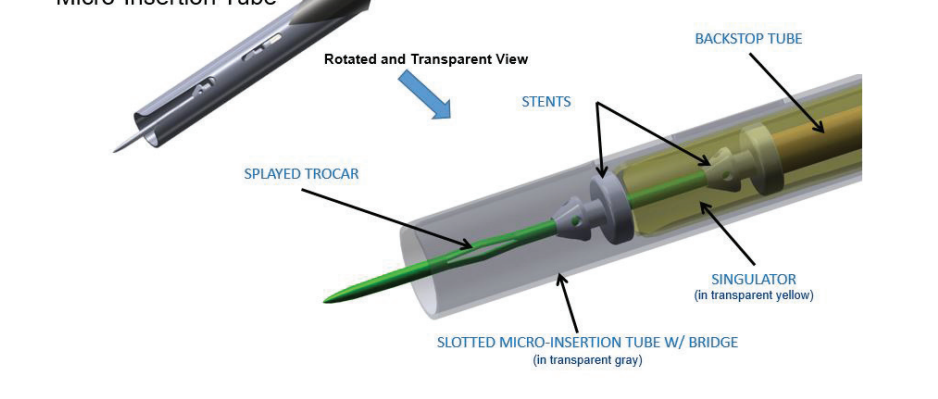


Figure 3b. iStent inject W G2-W Injector Distal End

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 be implanted into the eye. The iStent inject W Model G2-W System was designed based on data from the clinical study of the Model G2-M5 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 G2-M5 System – Pivotal Clinical Trial Results," below). The G2-W stents include a wider proximal end in the anterior chamber of 360 µm, rather than 220 µm for Model G2-M5.

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 active ocular inflammation
- In eyes with glaucoma associated with vascular disorders
- In pseudophakic patients with glaucoma
- In uveitic glaucoma
- In eyes with prior incisional glaucoma surgery or cilioblastoma procedures
- In eyes with prior laser trabeculoplasty (LT) with selective LT within 90 days prior to screening or prior argon laser trabeculoplasty (ALT) at any time
- In patients with medicated intraocular pressure greater than 24 mmHg
- In patients with unmedicated IOP less than 21 mmHg nor greater than 36 mmHg after "washout" of medications
- For implantation of more or less than two stents
- After complications during cataract surgery, including but not limited to, severe corneal burn, vitreous removal/vitrectomy required, corneal injury, or iris damage
- When implantation has been without concomitant cataract surgery with IOL implantation for visually significant cataract
- In patients with pseudoexfoliative glaucoma or pigmentary glaucoma, or in patients with other secondary open-angle glaucomas.

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 gonioscopic examination prior to taking a patient to surgery to exclude any ocular anomalies of the angle, including peripheral anterior synechia (PAS), rubosis, and any other angle anomalies that could lead to improper placement of the stent and pose a hazard.

Patients with peripheral iridodiolysis 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 should be taken in eyes with corneal edema, corneal guttae, or low endothelial cell density or with risk factors for corneal compaction 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.

5. PRECAUTIONS

1. The surgeon should inform 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.
2. After the surgery, the surgeon should give the patient the Patient ID card (enclosed in the iStent inject W packaging) with the appropriate information filled in, and should advise the patient to keep the card in a safe place, e.g., his or 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.
3. 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.

4. The safety and effectiveness of the iStent inject W 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.

5. The safety and effectiveness of the iStent inject W system has not been established in patients with the following circumstances or conditions which were not studied in the pivotal trial:

- In children
- In eyes with significant prior trauma
- In eyes with abnormal anterior segment
- In eyes with chronic inflammation
- In glaucoma associated with vascular disorders
- In pseudophakic patients with glaucoma
- In uveitic glaucoma
- In eyes with prior incisional glaucoma surgery or cilioblastoma procedures
- In eyes with prior laser trabeculoplasty (LT) with selective LT within 90 days prior to screening or prior argon laser trabeculoplasty (ALT) at any time
- In patients with medicated intraocular pressure greater than 24 mmHg
- In patients with unmedicated IOP less than 21 mmHg nor greater than 36 mmHg after "washout" of medications
- For implantation of more or less than two stents
- After complications during cataract surgery, including but not limited to, severe corneal burn, vitreous removal/vitrectomy required, corneal injury, or iris damage
- When implantation has been without concomitant cataract surgery with IOL implantation for visually significant cataract
- In patients with pseudoexfoliative glaucoma or pigmentary glaucoma, or in patients with other secondary open-angle glaucomas.

6. The stent is composed of implant grade titanium (Ti6Al4V-ELI) with a steroisulonic 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. The surgeon should be careful to avoid contact with the cornea and iris during stent implantation in order to minimize sequelae associated with device-cornea touch, stent obstruction and/or iris.

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, secondary surgical endophthalmitis, 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. INSTRUCTIONS FOR USE

Cataract Surgery

1. Cataract surgery with IOL implantation should be performed first followed by implantation of the iStent inject W. The stent implantations are designed for nasal placement; therefore, it is suggested that surgery is performed from the temporal side of the head.

3. An intracameral miotic can be injected to deepen the angle after cataract surgery prior to placement of the iStent inject W stent.

4. To mitigate difficulty with patient movement or non-compliance, consider using a peri-bulbar or retro-bulbar block.

Stent Implantation

a. Prepare for gonioscopy by turning the patient head away by approximately 35° and the scope toward surgeon by approximately 35° (70° total).

2. Inspect angle with a gonioscope to ensure that a good view is available at the nasal implantation location.

3. Place the gonioscope on the cornea and position the patient and surgical microscope as needed to visualize the trabecular meshwork, through the gonioscope, on the nasal side of the eye. Focus on the landmarks in the angle (Figures 4a & 4b). Look up from the eye to the anterior scleral spur (white line). Then look for Schwalbe's line (white line) down from the cornea. The trabecular meshwork (red/brown line) is between the scleral spur and Schwalbe's line. Schlemm's canal is behind the trabecular meshwork.

4. To attempt stent implantation in the nearest available trabecular meshwork tissue within 1 clock hour away; see Figure 9.

5. If the first stent is under implanted and does not remain on trocar, this stent can be "retreathed" onto the trocar by placing the trocar through the central inlet (Figure 9). Use the alternative "flush technique" to implant the stent.

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iStent inject W Injector and Stent Placement Techniques

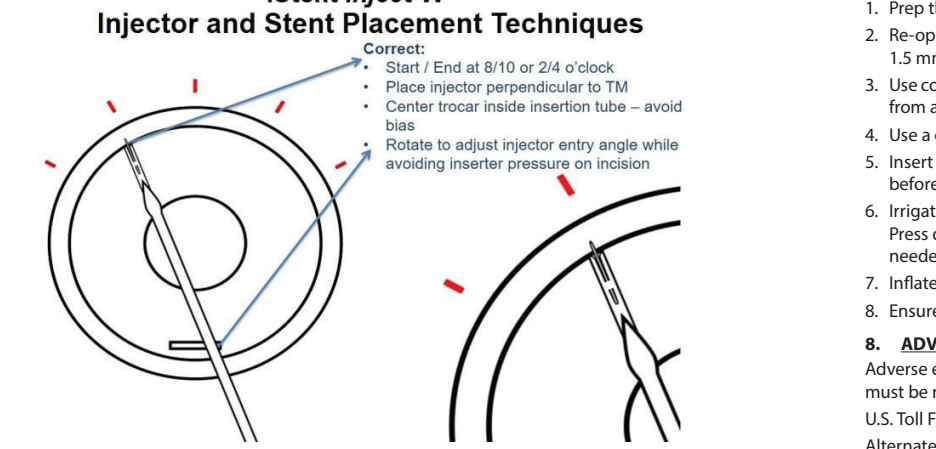


Figure 6. iStent inject W Implant Location

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).

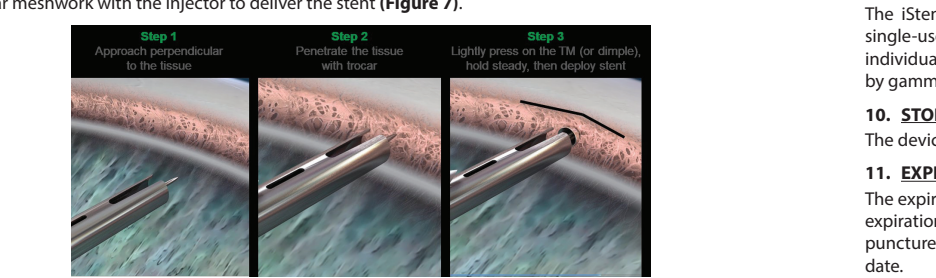


Figure 7. iStent inject W Implant Procedure (left: approach the TM; center trocar pierces TM; right: dimple tube and inject)

e. Center the trocar inside the micro-insertion tube, relax hand and squeeze the stent delivery button with your index finger. A single audible click will indicate that the first stent has been delivered from the injector through the trabecular meshwork and into Schlemm's Canal. Look through the micro-insertion tube window during stent implantation to verify the stent is securely in place within the tissue before withdrawing injector back.

f. Important: Hold the stent delivery button down and carefully withdraw the injector from the stent prior to releasing your finger from the stent delivery button.

g. Upon release of the stent delivery button, a second audible click will indicate that the next stent is in position and ready to deliver.

h. Carefully move the injector at least two clock hours away from the first stent implant. Approach the trabecular meshwork and repeat steps c - f.

i. After successful implantation of the second stent, carefully withdraw the injector from the implant site, release the stent delivery button and remove the injector from the eye.

j. Confirm proper placement of the two implanted stents, ensuring that each stent flange is visible in the anterior chamber (shown below in Figure 8).

k. Note: minimal blood reflux is a normal physiological response to placement of the stents, although this does not occur in all cases.

9. Study Design

The iStent inject W Pivotal Trial (Protocol G2-008) was a prospective, randomized, comparative, multicenter investigation conducted in the United States, in which a total of 505 eyes of 405 patients were randomized in a 3:1 fashion to undergo either implantation of the iStent inject or unoperated cataract surgery (iStent inject group) or to undergo cataract surgery without implantation of the iStent inject (Control group). A total of 387 eyes were randomized to the iStent inject group and 118 eyes were randomized to the Control group. The study was initiated in September 2011 under IDE G100326. At the time of the database lock for this report, all available eyes had reached the time point at which the safety and effectiveness endpoints are evaluated, i.e., 24 months postoperative. The database for this PMA was locked on November 13, 2017.

The subjects and Medical Monitor were masked to treatment assignments. Each IOP measurement was to be performed using Goldmann applanation by two observers, one of whom was masked to the treatment group assignment.

There were two (2) primary endpoints for the primary efficacy endpoints: (1) the mean difference in medication-free diurnal IOP at Month 24. The first hypothesis was that a larger proportion of eyes who received the iStent inject would meet the primary effectiveness endpoint than those who received cataract surgery alone. The second hypothesis was that the 24-month IOP-response rate of the iStent inject group would be better than 50%. This hypothesis was to be tested if the observed cataract surgery only response rate was greater than 35%.

There was little difference in endothelial cell (EC) between the iStent inject 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 -1.31% (SD 12.4; 95% CI -14.4%, -1.18%) 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.

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 ($\geq 20\%$) 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 months postoperative examination, was met. The mean reduction in medication-free 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 Postoperative)	Cataract Surgery with iStent inject N = 380	Cataract Surgery with Control N = 278	Difference (iStent inject vs. control)	P-value for difference
Proportion of subjects with medication-free IOP reduction $\geq 20\%$ from baseline	75.8%	61.9%	13.9%	0.003*
Medication-free mean IOP (mmHg) change from baseline ¹	-7.0	-5.4		<0.001*

Subjects without Month 24 medication-free diurnal IOP or with IOP-related SSIs, 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 stem reposition or removal prior to 24 months were treated as non-responders.

1. 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).

2. One-sided Fisher's exact test with a significance level of 0.025.

3. 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 N = 380 n (%)	Cataract Surgery Only N = 278 n (%)
Total Non-Responders	92 (24.2%)	45 (16.2%)
Non-Responders: 24-month unmedicated diurnal IOP reduction from baseline < 20%	56 (14.7%)	26 (9.3%)
Non-Responders for reasons other than IOP reduction ¹	26 (6.9%)	19 (6.9%)
Secondary glaucoma surgery ²	5 (1.3%)	3 (1.1%)
Other IOP-affecting secondary surgery ³	0 (0.0%)	0 (0.0%)
Stem 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 (1.4%)
Did not complete medication washout - Instructions not provided/followed ⁴	0 (0.0%)	2 (0.7%)
Missing 24-month diurnal IOP data ⁵	19 (5.0%)	10 (3.6%)
Death	4 (1.1%)	6 (2.2%)
Investigator's decision	1 (0.3%)	0 (0.0%)
Lost contact	8 (2.1%)	2 (0.7%)
Subject's decision	6 (1.6%)	2 (0.7%)

n = number of eyes with the corresponding responses, % = n / N x 100%.

1. Subjects were included in the primary category of "Non-Responders for reasons other than IOP reduction".

2. Secondary glaucoma surgeries included trabeculectomy and laser trabeculectomy.

3. Other IOP-affecting secondary surgeries.

4. The outcomes of these subjects were imputed for the 24-month analysis.

5. 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 (OSDI10) 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. -10.60) 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 Study Population

Statistics	Cataract Surgery with iStent inject Total Number of Subjects = 386				Cataract Surgery Only Total Number of Subjects = 278			
	1M n (%)	6M n (%)	12M n (%)	24M n (%)	1M n (%)	6M n (%)	12M n (%)	24M n (%)
Ocular Symptoms (O1, O2, O3)								
Mean	382	376	367	361	117	118	115	109
SD	-11.87	-15.44	-16.93	-16.41	-6.41	-10.55	-11.53	-10.69
Min	22.39	21.33	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
Max	-100	-100	-100	-100	-100	-100	-100	-100
Net Reported	2	1	3	5	2	0	1	0
Vision-Related Function (O4, O5, O6, O7, O8, O9)								
Mean	379	374	363	359	117	118	115	109
SD	-16.07	-21.46	-22.82	-22.60	-14.08	-17.32	-20.92	-18.56
Min	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	-4.3	-12.5	-16.7	-12.5
Max	-93.8	-100	-100	-100	-100	-100	-100	-100
Net Reported	5	3	7	2	2	0	1	0
Environmental Triggers (O10, O11, O12)								
Mean	370	367	358	353	114	116	113	106
SD	-5.20	-7.27	-7.83	-7.41	-4.61	-7.26	-7.82	-7.70
Min	21.52	20.70	21.65	22.61	21.95	21.61	21.60	20.66
Median	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
Max	-83.3	-100	-100	-100	-75.0	-100	-100	-75.0
Net Reported	14	10	12	13	5	2	3	3
Overall Composite Score								
Mean	382	376	367	361	117	118	115	109
SD	-11.87	-15.44	-16.66	-16.25	-8.48	-11.91	-13.60	-12.38
Min	20.79	19.39	19.38	19.73	20.02	18.01	17.18	18.38
Median	-10.4	-12.5	-13.3	-12.5	-4.2	-10.4	-10.7	-10.4
Max	-93.8	-100	-100	-100	-60.4	-66.7	-64.6	-43.5
Net Reported	72.9	37.5	31.3	48.8	70.8	37.5	17.6	56.3

Each sub-scale is a summation of some specific questions to the OSDI.

3. Based on proportional analysis using a non-response imputation for missing data. Subjects without Month 24 medication-free diurnal IOP or with IOP-related SSIs, 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 stem 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%).

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) in the iStent inject group and 17.8 mmHg (SD 3.5) in the control group.

D. Of the subjects who were responders (e.g., 24-month unmedicated mean DIOP was reduced by $\geq 20\%$ as compared with baseline in the absence of IOP-affecting surgery during the study), 84% of subjects in the iStent inject group (343/288) and 67% of subjects in the Control Group (49/73) were not using ocular hypotensive medication at 23 months.

*Based on mean observed unmedicated IOP values from only those subjects with unmedicated IOP and without SSIs or other events (including loss of light perception or hypotony (IOP < 6 mmHg) associated with clinically significant findings).

14. POST-APPROVAL STUDY RESULTS

iStent inject Extended Follow-up of Pivotal Study Cohort (Protocol # IG2M-104-CONT)

Study Objectives

In accordance with the PMA conditions of approval, extended follow-up of the pivotal study (GC-008) cohort was conducted. The IG2M-104-CONT protocol was approved by FDA April 16, 2019, and the updated protocol was approved by the FDA on April 30, 2020. The goal of the post-approval study was to evaluate the long-term rate of clinically relevant complications associated with iStent inject placement and stability.

Study Design

In this long-term safety, multicenter, observational post-approval study with no planned interventions study, subjects who were enrolled and randomized in the pivotal study were eligible for enrollment.

Study Population/Data Source

In the iStent inject pivotal study, a total of 505 subjects with mild to moderate primary open-angle glaucoma were randomized in a 3:1 fashion to implantation of the iStent inject after uncomplicated cataract surgery. iStent inject group, n=387) or to cataract surgery only (control group, n=118). Subjects were asked to consent for long-term follow-up of 60 months post-randomization.

Study Endpoint

The primary endpoint was the rate of clinically relevant complications associated with iStent inject placement and stability as determined at 60 months, specifically, the rate of sight-threatening adverse events and secondary surgical intervention to modify device position.

Total Number of Enrolled Study Sites and Subjects

A total of 24 sites of the 40 sites that randomized subjects into pivotal study agreed to participate in the post-approval study. Of the total of 505 subjects randomized in the pivotal study, 227 subjects (178 iStent inject subjects and 49 control subjects) consented to participate in the post-approval study.

Study Visits and Length of Follow-Up

The protocol specified a follow-up visit at 48 and 60 months to collect additional safety data. Due to the delay in the approval of the post-approval study protocol, all eligible subjects were beyond the Month 48 visit window. Therefore, data was collected at Month 60 visits. The mean follow-up from surgery to final visit was 227.16 (SD 33.05) days in iStent inject group, and 229.10 (SD 32.37) days in the control group.

Final Safety Findings - Sight-Threatening Adverse Events

Table 12 presents all postoperative sight-threatening adverse events reported in the study eye in the pivotal study and post-approval study by time period. A lower proportion of subjects in the iStent inject group experienced sight-threatening adverse events than the control group at each time period (i.e., 14.6% vs. 20.2% through Month 24, 3.6% vs. 7.3% between Month 24 and Month 36; 15.7% vs. 36.7% between Month 36 and Month 60).

Other BSCVA-Related Adverse Events

The proportion of subjects with BSCVA loss 2 lines or more at or after 3 months postoperative was mild to moderate, 0.3% in the iStent inject group (n=1) and 0.8% in the control group (n=1). As described in the original PMA report:

- The iStent inject subject was reported with glaucoma progression requiring surgical intervention at the Month 18 visit and underwent trabeculectomy and Express shunt implantation. At the Month 24 visit, diurnal IOP was 8.3 mmHg on 1 medication and BSCVA was 20/66.
 - BSCVA for the control subject fluctuated and was 20/26 at baseline, 20/83 at Month 3, 20/36 at Month 12, and 20/50 at Month 24.
- Three AE categories involving BSCVA loss vs. best recorded BSCVA at any postoperative visits were used:
- The proportion of subjects with BSCVA loss 2 lines or more and less than 3 lines at Month 60 in eyes, best recorded BSCVA at any postoperative visit was 6.2% in the iStent inject group and 3.4% in the control group. In all eyes, BSCVA at the Month 60 visit was 20/36 or better.
 - The proportion of subjects with BSCVA loss 3 lines or more at study exit vs. best recorded BSCVA at any postoperative visit and 20/40 or better was 0.8% in the iStent inject group and 1.7% in the control group.
 - The proportion of subjects with BSCVA loss 3 lines or more at study exit vs. best recorded BSCVA at any postoperative visit and 20/40 or worse was 0.8% in the iStent inject group and 1.7% in the control group. These AEs were not considered device-related. A brief description for each subject is provided below.
 - The first iStent inject subject had BSCVA of 20/46 at the Month 60 visit. BSCVA fluctuated throughout the study in this 93 year-old subject, and the site considered the variation in vision to be normal and attributed to tear film quality and quantity and possibly due to slight epithelial membrane.
 - The second iStent inject subject had BSCVA of 20/15 at the Month 36 visit due to PCO.
 - The third iStent inject subject experienced retinal detachment at approximately 40 months postoperative and that resolved following laser retinopathy; BSCVA was 20/48 at the Month 60 visit.
 - The first control subject underwent XEN stent implantation approximately 62 months postoperative; BSCVA was 20/63 at the Month 60 visit that occurred 4 months after the XEN implantation.
 - The second control subject had BSCVA of 20/1002 at Day 175 which persisted through the Month 36 visit and decreased to hand motion at the Month 60 exam. The profound loss in BSCVA at Day 175 vs. Month 1 postoperative BSCVA of 20/16 coincided with central retina artery occlusion.

Table 12. Postoperative Sight-Threatening Adverse Events in the Study Eye (Data from GC-008 and IG2M-104-CONT Study)

Sight-Threatening Adverse Event	GC-008 Data Through Month 24 N=119		GC-008 Between Month 24 and Month 36 N=41		IG2M-104-CONT Between Month 36 and Month 60 N=49	
	n of Subjects with Event (%)	n of Events	n of Subjects with Event (%)	n of Events	n of Subjects with Event (%)	n of Events
Total	65 (54.6%)	90	5 (12.2%)	5	28 (57.1%)	37
Age-related macular degeneration	2 (0.5%)	2	1 (0.7%)	1	5 (12.2%)	5
BSCVA loss 3 lines or more at study exit vs. best recorded BSCVA at any postoperative visit and worse than 20/40	0	0	1 (0.7%)	1	1 (0.6%)	1
Branch retinal vein occlusion	1 (0.8%)	1	0	0	0	0
Central retinal artery occlusion	0	0	0	0	0	0
Clinically significant cystoid macular edema	5 (1.3%)	5	0	0	0	0
Corneal edema ≥ 30 days	1 (0.8%)	1	0	0	0	0
Corneal opacity	4 (1.0%)	4	0	0	0	0
Corneal striae	1 (0.8%)	1	0	0	0	0
Corneal ulcer	0	0	0	0	0	0
Cystoid macular edema	2 (0.5%)	2	0	0	0	0
Disc hemorrhage	4 (1.0%)	4	0	0	0	0
Epithelial membrane	9 (2.3%)	9	0	0	3 (11.7%)	3
Glaucoma progression requiring surgical intervention	4 (1.0%)	4	1 (2.4%)	1	4 (12.2%)	6
IOL dislocation	0	0	0	0	0	0
IOP increase ≥ 10 mmHg vs. baseline IOP occurring at ≥ 1 Month 1	8 (2.1%)	9	0	0	0	0
IOP increase requiring management with oral or intravenous medications or with surgical intervention at ≥ 1 Month 1	2 (0.5%)	2	0	0	0	0
IOP increase requiring management with oral or intravenous medications or with surgical intervention at ≥ 1 Month 1 to < 1 Month 1	1 (0.3%)	1	2 (4.9%)	2	10 (5.6%)	10
IOP increase requiring management with oral or intravenous medications or with surgical intervention at ≥ 1 Month 1 to > 1 Month 1	0	0	0	0	0	0
IOP increase requiring management with oral or intravenous medications or with surgical intervention at ≥ 1 Month 1 to > 1 Month 1	0	0	0	0	0	0
IOP not at target requiring surgical intervention	0	0	0	0	5 (12.2%)	6
Increase in C/D ratio > 0.3	0	0	0	0	1 (0.6%)	1
Iris atrophy	1 (0.8%)	1	0	0	0	0
Ishemic Optic Neuropathy	0	0	0	0	0	0
Medication intolerance requiring surgical intervention	1 (0.8%)	1	0	0	3 (11.7%)	3
Nerve fiber layer loss	6 (11.6%)	6	0	0	0	0
Non-proliferative diabetic retinopathy	2 (0.5%)	2	0	0	0	0
Optic nerve thinning/capping	2 (0.5%)	2	0	0	0	0
Peripapillary atrophy	3 (0.8%)	3	0	0	0	0
Posterior vitreolysis	2 (0.5%)	2	0	0	0	0
Retinal detachment	1 (0.8%)	1	0	0	1 (0.6%)	1
Retinal dissection	2 (0.5%)	2	0	0	0	0
Retinal flap tears	3 (0.8%)	3	0	0	0	0
Retinal hemorrhage	2 (0.5%)	2	0	0	0	0
Retinal hole	3 (0.8%)	3	0	0	0	0
Retinal pigment epithelial changes	2 (0.5%)	2	0	0	0	0
Retinal tear	1 (0.8%)	1	0	0	0	0
Segmental loss of neuroretinal rim (notching)	3 (0.8%)	3	0	0	0	0
Visual field loss ≥ 5 dB	4 (1.0%)	4	0	0	1 (0.6%)	1
Vitreous hemorrhage	2 (0.5%)	2	0	0	0	0
Worsening glaucoma	1 (0.8%)	1	0	0	0	0

Table 13. Secondary Surgical Interventions in the Study Eye (Data from GC-008 and IG2M-104-CONT Study)

Procedure Term	GC-008 Data Through Month 24 N=386		GC-008 Between Month 24 and Month 36 N=138		IG2M-104-CONT Between Month 36 and Month 60 N=178	
	n of Subjects with Event (%)	n of Events	n of Subjects with Event (%)	n of Events	n of Subjects with Event (%)	n of Events
Total	21 (5.4%)	22	4 (2.9%)	4	23 (12.9%)	30
Cataract surgery (aborted)	0	0	0	0	0	0
Cataract surgery (completed)	0	0	0	0	1 (0.6%)	1
IOL exchange	1 (0.3%)	1	0	0	0	0
IOL repositioning	0	0	0	0	0	0
Laser for stent obstruction	3 (0.8%)	3	0	0	1 (0.6%)	1
Laser retinopathy	6 (1.6%)	7	0	0	2 (1.1%)	2
Microscope diode laser trabeculectomy	0	0	0	0	2 (1.1%)	3
Pariental photocoagulation	0	0	0	0	0	0
Posterior vitreolysis	2 (0.5%)	2	0	0	0	0
Removal of residual cortex	1 (0.3%)	1	0	0	0	0
Selective laser trabeculo-plasty	2 (0.5%)	2	3 (2.2%)	3	15 (8.4%)	17
Trabeculectomy with/without Express shunt	4 (1.0%)	4	1 (0.7%)	1	2 (1.1%)	2
Vitreotomy	1 (0.3%)	1	0	0	1	