

I. GENERAL INFORMATION

Device Generic Name: Excimer Laser

Device Trade Name: Bausch & Lomb TECHNOLAS®217A
Excimer Laser System

Applicant's Name and Address: Bausch & Lomb, Inc.
180 E. Via Verde Drive
San Dimas, California 91773 USA

Date of Panel Recommendation: None

PMA Number: P990027/S4

**Date of Notice of Approval
to Applicant:** February 25, 2003

The Bausch & Lomb TECHNOLAS® 217A Excimer Laser System was approved on February 23, 2000 under PMA 990027/S2 for the indication of photorefractive keratectomy for the reduction or elimination of myopia ranging from -1.00 D to -7.00 D spherical myopia with or without \leq -3.00 astigmatism. An expansion of the indication statement was approved on May 17, 2002 for the reduction or elimination of myopic astigmatism up to -12.00 D MRSE, with sphere between $>$ -7.00 D to -10.99 D and cylinder between 0.00 and $<$ 03.00. The sponsor submitted the current supplement to request expansion of the indication statement to include hyperopia and hyperopic astigmatism. Clinical data to support this indication are provided in this summary. The pre-clinical test results were presented in the original PMA application. For more information on the data that supported the approved indication, the summary of safety and effectiveness data (SSED) for P990027/S4 should be referenced. Written requests for copies of the SSED can be obtained from the Dockets Management Branch (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Room 1061, Rockville, Maryland 20857. The summary can also be found on the FDA CDRH Internet Home Page located at <http://www.fda.gov/cdrh/pmapage.html>.

II. INDICATIONS FOR USE

The Bausch & Lomb TECHNOLAS 217A Excimer Laser System is indicated for use in laser assisted in-situ keratomileusis (LASIK) treatments for:

- The reduction or elimination of low-to-moderate naturally occurring hyperopia up to +4.00 diopters (D) MRSE, with sphere between +1.00 to +4.00 D with or without refractive astigmatism up to +2.00 D at the spectacle plane.
- In patients with documented evidence of a change in manifest refraction of less than or equal to 0.50 diopters (in both cylinder and sphere components) for at least one year prior to the date of the pre-operative examination.
- In patients who are 21 years of age or older.

III. CONTRAINDICATIONS, WARNINGS AND PRECAUTIONS

A. Contraindications

LASIK surgery is contraindicated in:

- Patients with collagen vascular, autoimmune, or immunodeficiency diseases;
- Pregnant or nursing women;
- Patients with signs of keratoconus;
- Patients who are taking one or both of the following medications: isotretinoin (Accutane), or amiodarone hydrochloride (Cordarone).

B. Warning and Precautions

Please refer to the Professional Use information and the Patient Information booklet for a complete list of warning and precautions.

IV. DEVICE DESCRIPTION

The TECHNOLAS[®]217A Excimer Laser System is designed for the correction of refractive error by reshaping the surface of the cornea. Corneal reshaping is accomplished by ablating precise amounts of corneal tissue with high-energy ultraviolet light from a pulsed Argon-Fluoride excimer laser system. The desired ablation profile is based upon the thin lens equations. The TECHNOLAS[®]217A uses a small diameter spot in a scanning mode to create the type of correction desired hyperopia or astigmatism.

The TECHNOLAS 217A Excimer Laser system for hyperopic astigmatism uses an optical zone that is selectable between 5.0 mm and 6.0 mm and a blend zone of 1.90mm for spherical hyperopia and 1.75 mm for hyperopic astigmatism. and the Laser is locked out for refractive corrections greater 4.00D sphere and greater than 2.00D cylinder. The software used in the clinical trial was 2.9994A. The final commercial release version for

hyperopic astigmatism, incorporating the changes made during PMA review, is software version 3.14A.

The TECHNOLAS[®] 217A Excimer Laser System consists of the following components:

A. Laser System

| | |
|---------------------------|--|
| Laser Unit | The laser unit consists of the laser head (discharge system), which contains the optical resonator and a discharge chamber, which is filled with a premix of argon, fluorine, and a buffer of other noble gases. |
| Control Unit | The control unit contains the personal computer that uses a software algorithm to calculate the number and location of laser pulses required to achieve the desired correction. |
| Tower Unit | The tower unit provides the stable holding construction for the optical system of the TECHNOLAS [®] 217A Excimer Laser. The tower unit contains the optical elements that condition the laser beam to the appropriate characteristics. The tower also contains the visualization optics (the operating microscope) and the positioning and fixation optics for properly locating and monitoring the progress of the ablation. There is a distance of 21 cm (“working distance”) between the focusing point on the cornea and the laser arm. |
| Operating Elements | The operating elements of the TECHNOLAS [®] 217A Excimer Laser System consist of two joysticks for movement of the patient bed in all axes and other operating elements and external connectors. |
| Bed Unit and Chair | The bed unit allows for accurate positioning of the patient during the surgical procedure while the operating chair allows the surgeon to adjust his/her position at the operating microscope. |

TECHNOLAS[®] 217A Excimer Laser Specifications

| | |
|-----------------------------------|------------------------|
| Laser Type | Argon Fluoride |
| Laser Wavelength | 193 nm |
| Laser Pulse Duration | 18 nanoseconds |
| Laser Head Repetition Rate | 50 Hz |
| Effective Corneal Repetition Rate | 12.5 Hz |
| Fluence (at the eye) | 120 mJ/cm ² |
| Range of Ablation Diameter | 2.0 to 2.05 mm |

B. Microkeratome

The microkeratome is an instrument that creates a hinged corneal flap (lamellar flap) prior to the laser ablation procedure. The microkeratome is commercially available and cleared for marketing via premarket notification. The device used in this study consists of a sterilization/storage tray which includes the microkeratome head, a left/right eye adapter, suction ring, suction handle, and blade insertion tool. The microkeratome motor, tonometer, cleaning brush, disposable blades, black suction ball, power/suction supply unit with vacuum and motor footswitch and power cords are provided as separate components and accessory stand and equipment suitcase which complete the system.

V. ALTERNATIVE PRACTICES OR PROCEDURES

Alternative methods of correcting farsightedness (hyperopia) include: glasses, contact lenses, photorefractive keratectomy (PRK), incisional refractive keratotomy (RK), lamellar refractive keratotomy, or other types of refractive surgery.

VI. MARKETING HISTORY

Over 500 TECHNOLAS[®]217 Excimer Laser Systems have been installed in the following countries: Argentina, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Colombia, Czech Republic, Finland, France, Germany, Greece, Hong Kong, India, Indonesia, Israel, Italy, Japan, Jordan, Korea, Malaysia, Mexico, New Zealand, Philippines, Portugal, Qatar, Russia, Saudi Arabia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Kingdom, United States and Venezuela.

The TECHNOLAS[®]217A Excimer Laser System has not been withdrawn from marketing for any reason relating to the safety and effectiveness of the device.

VII. POTENTIAL ADVERSE EFFECTS OF THE DEVICE ON HEALTH

Potential adverse reactions associated with LASIK include: loss of best spectacle corrected visual acuity, worsening of patient complaints such as dry eyes, double vision, sensitivity to bright lights, increased difficulty with night vision, fluctuations in vision, increase in intraocular pressure, corneal haze, secondary surgical intervention, corneal infiltrate or ulcer, corneal epithelial defect, corneal edema, problems associated with the flap including a lost, misplaced or misaligned flap, retinal detachment, and retinal vascular accidents.

VIII. SUMMARY OF PRECLINICAL STUDIES

Please refer to the SSED of the original PMA P990027

IX. SUMMARY OF CLINICAL STUDIES

A. Objectives

The objective of this study was to demonstrate the safety and effectiveness of the Bausch & Lomb TECHNOLAS 217A Excimer Laser System for the reduction or elimination of low-to-moderate naturally occurring hyperopia of +1.00 to +4.00 diopters with or without refractive astigmatism up to +2.00 diopters when used as part of the LASIK surgical procedure. In this study, the maximum amount of sphere treated was +4.00 D, and the maximum amount of cylinder treated was +2.00 D.

B. Study Design

The data for this report were gathered from a prospective, open-label, non-randomized, multi-center clinical evaluation conducted in the United States of America for the indications of +1.00 to +4.00 D of hyperopia and up to +2.00 D of astigmatism when used in the procedure known as LASIK. Since the TECHNOLAS 217A laser already had PMA approval for marketing based on previously submitted safety and effectiveness data for myopia and astigmatic myopia, the sample size was based on the demonstration of effectiveness for hyperopia treatments rather than on primary safety outcomes. A total of 358 eyes were enrolled (357 actually treated). There were 290 eyes (233 non-monovision and 57 monovision) with 6 months of follow-up data. Based on the sample size calculations provided in the original protocol, at least 196 non-monovision-treated eyes would be required to demonstrate effectiveness. In this report, effectiveness results are provided for 233 non-monovision-treated eyes with at least 6 months of follow-up data. Safety data are provided for all 358 eyes enrolled in the study.

C. Inclusion and Exclusion Criteria

Study Inclusion Criteria:

To be enrolled in the study, patients needed to meet these conditions: have +1.00 to +4.00D of hyperopia with +2.00D or less of refractive astigmatism; less than 0.75D of latent hyperopia as determined by the difference between preoperative manifest and cycloplegic refractions; be willing to have full distance correction or monovision; presbyopic patients must tolerate and accept monovision during a trial monovision correction using either contact lenses or spectacles, have a white to white measurement of not less than 11.0mm; have a stable refraction for the past year; discontinue use of contact lenses at least 2 weeks for hard contacts and 1 week for soft lenses prior to surgery; hard contact wearers must have two central keratometry readings and two manifest refractions taken at least one week apart that do not differ by more than 0.50D; with visual acuity correctable to at least 20/40; be at least 21 years of age, be willing and able to return for scheduled follow-up examinations; provide written informed consent.

Exclusion Criteria – All eyes to be Treated

Patients not meeting the above inclusion criteria were excluded from the study, in addition, subjects who exhibited any of the following conditions were excluded: history of anterior segment pathology, including cataracts; patients co-managed by ophthalmologist or optometrist not approved as a B&L laser investigator; residual, recurrent, active ocular or uncontrolled eyelid disease, or any corneal abnormality (specifically, recurrent corneal erosion, severe basement membrane disease); ophthalmoscopic signs of keratoconus (or keratoconus suspect); unstable (distorted/not clear) corneal mires on central keratometry readings; blind in the fellow eye; previous intraocular or corneal surgery; history of herpes zoster or herpes simplex keratitis; history of steroid-responsive rise in intraocular pressure, glaucoma, or preoperative IOP >21 mm Hg; diabetes, diagnosed autoimmune disease, connective tissue disease or clinically significant atopic syndrome; chronic systemic corticosteroid or other immunosuppressive therapy, and immunocompromised patients; pregnant, lactating, or child-bearing potential and not practicing a medically approved method of birth control; sensitivity to planned study medications; simultaneous participation in other ophthalmic drug or device clinical trial.

D. Study Plan, Patient Assessments and Efficacy Criteria

All subjects were expected to return for follow-up examinations at 1 day, 1 week, 1 month, 3 months, 6 months, 9 months, 12 months, 18 months and 24 months postoperatively.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Subjects were permitted to have second eyes (fellow eyes) treated no sooner than 7 days after the first eye surgery. In, addition, subjects were eligible for retreatment no sooner than 3 months after the original surgery and only if refraction was stable after treatment. Retreatment would not be performed as a part of the protocol.

Preoperatively, the subjects’ medical and ocular histories were recorded. The objective parameters measured during the study included: uncorrected visual acuity, best spectacle corrected visual acuity, manifest refraction, intraocular pressure, corneal pachymetry, slit lamp examination of the anterior segment, fundus examination, computerized corneal topography and subjective self evaluation questionnaire.

The primary efficacy variables for this study were improvement of UCVA based on the pre-treatment goal of the procedure and predictability of manifest refraction.

E. Study Period, Investigational Sites, and Demographics Data

1. Study Period and Investigational Sites

Subjects were treated between May 1999 to August 2001. The database for this PMA supplement reflected data collected through March 18, 2002. A total of 358 eyes were treated at eight sites.

2. Demographics

Demographic data for all treated eyes grouped by treatment type are presented below in Table 1.

**Table 1
Demographics — All Treated Eyes**

| Demographics | Treated for Spherical Hyperopia Only | | Treated for Astigmatic Hyperopia | | All Treated Eyes | |
|---------------------------|--------------------------------------|------------|----------------------------------|------------|-----------------------------------|------------|
| | Number | Percentage | Number | Percentage | Number | Percentage |
| NUMBER OF EYES & SUBJECTS | 211 Eyes of 128 Enrolled Subjects | | 147 Eyes of 96 Enrolled Subjects | | 358 Eyes of 194 Enrolled Subjects | |
| GENDER | | | | | | |
| Male | 104 | 49.3% | 74 | 50.3% | 178 | 49.7% |
| Female | 107 | 50.7% | 73 | 49.7% | 180 | 50.3% |
| RACE | | | | | | |
| White | 208 | 98.6% | 142 | 96.6% | 350 | 97.8% |
| Black | 1 | 0.5% | 3 | 2.0% | 4 | 1.1% |
| Other | 2 | 0.9% | 2 | 1.4% | 4 | 1.1% |
| SURGICAL EYE | | | | | | |
| Right | 100 | 47.4% | 79 | 53.7% | 179 | 50.0% |
| Left | 111 | 52.6% | 68 | 46.3% | 179 | 50.0% |
| AGE (in years) | | | | | | |
| Mean | 52.8 (7.5) | | 53.6 (9.5) | | 53.1 (8.4) | |
| Minimum, Maximum | 23.4, 68.9 | | 23.9, 69.0 | | 23.4, 69.0 | |

F. Data Analysis and Results

1. Preoperative Characteristics

Presented in Table 2 are the preoperative refraction parameters for all treated eyes.

Table 2
Preoperative Refraction Parameters
All Treated Eyes
Stratified by Sphere and Cylinder Components

| Manifest Sphere Mean (SD): 1.92 (0.79) Range: 0.50 to 4.00 | Manifest Cylinder Mean (SD): 0.50 (0.46), Range: 0.00 to 2.00 | | | | | | Total | |
|--|--|---------------|---------------|---------------|---------------|--------------|----------------|----------------|
| | 0.00-0.99 D | | 1.00-1.74 D | | 1.75-2.00 D | | n/N | % |
| | n/N | % | n/N | % | n/N | % | | |
| 0.00-0.50 D | 2/358 | (0.6) | 1/358 | (0.3) | 0/358 | (0.0) | 3/358 | (0.8) |
| 0.51-1.00 D | 40/358 | (11.2) | 8/358 | (2.2) | 1/358 | (0.3) | 49/358 | (13.7) |
| 1.01-1.50 D | 85/358 | (23.7) | 21/358 | (5.9) | 3/358 | (0.8) | 109/358 | (30.4) |
| 1.51-2.00 D | 56/358 | (15.6) | 9/358 | (2.5) | 4/358 | (1.1) | 69/358 | (19.3) |
| 2.01-2.50 D | 53/358 | (14.8) | 8/358 | (2.2) | 0/358 | (0.0) | 61/358 | (17.0) |
| 2.51-3.00 D | 28/358 | (7.8) | 3/358 | (0.8) | 2/358 | (0.6) | 33/358 | (9.2) |
| 3.01-3.50 D | 21/358 | (5.9) | 1/358 | (0.3) | 1/358 | (0.3) | 23/358 | (6.4) |
| 3.51-4.00 D | 9/358 | (2.5) | 1/358 | (0.3) | 1/358 | (0.3) | 11/358 | (3.1) |
| Total | 294/358 | (82.1) | 52/358 | (14.5) | 12/358 | (3.4) | 358/358 | (100.0) |

N = Total number of eyes treated for astigmatic hyperopia.
 1 eye (3.500.75x15) was reported with an aborted procedure.
 79 eyes were treated for monovision.

2. Post-operative Characteristics and Results

a. Accountability

Accountability for all treated eyes across the study visit schedule is presented in Table 3.

Table 3
Accountability — All Treated Eyes

| Status | | 1 Month | 3 Months | 6 Months | 9 Months | ³ 12 Months |
|--|---------|-----------------|-----------------|-----------------|-----------------|------------------------|
| Available for Analysis | n/N (%) | 333/358 (93.0%) | 343/358 (95.8%) | 290/358 (81.0%) | 222/358 (62.0%) | 178/358 (49.7%) |
| Discontinued* | n/N (%) | 1/358 (0.3%) | 1/358 (0.3%) | 1/358 (0.3%) | 13/358 (3.6%) | 19/358 (5.3%) |
| Active (Not yet eligible for the interval) | n/N (%) | 0/358 (0.0%) | 0/358 (0.0%) | 48/358 (13.4%) | 50/358 (14.0%) | 152/358 (42.5%) |
| Lost to Follow-up† | n/N (%) | 0/358 (0.0%) | 0/358 (0.0%) | 0/358 (0.0%) | 6/358 (1.7%) | 6/358 (1.7%) |
| Missed Visit‡ | n/N (%) | 24/358 (6.7%) | 14/358 (3.9%) | 19/358 (5.3%) | 67/358 (18.7%) | 3/358 (0.8%) |
| % Accountability = Available for Analysis + (Enrolled - Discontinued - Not yet eligible) | | 333/357 (93.3%) | 343/357 (96.1%) | 290/309 (93.9%) | 222/295 (75.3%) | 178/187 (95.2%) |

N = Total eyes enrolled.

* Discontinued = Exited due to Technolas laser retreatment (0 eye) or non-Technolas laser retreatment (18 eyes) or aborted procedure (1 eye) or death (0 eye).

† Loss to follow-up: Eyes not examined at the 24-month visit, and not considered active or discontinued.

‡ Missed visit: Eyes not examined at the scheduled visit, but were then seen at a subsequent visit.

b. Stability of outcome

Table 4 presents the results for the stability of the manifest refraction spherical equivalent for the consistent cohort (all treated eyes examined at 1, 3, and 6 months). The results indicate that at least 95% of eyes were within 1.00 D of the previous visit's spherical equivalent refraction value during the 1 to 3 months interval. The mean of the paired-differences of MRSE reached $\leq |0.12|$ D in the 3 to 6 months interval. Thus, stability was demonstrated by 6 months postoperative.

Table 4
Stability of Manifest Refraction Spherical Equivalent (MRSE)
6-Month Consistent Cohort

| Change in Spherical Refraction | Between 1 and 3 Months | | | Between 3 and 6 Months | | |
|---|------------------------|-------------------------|-------------------------------|--------------------------------------|-------------------------|-------------------------------|
| | Full Cohort | Treated For Sphere Only | Treated For Sphere & Cylinder | Full Cohort | Treated For Sphere Only | Treated For Sphere & Cylinder |
| Change of MRSE by ≤ 1.00 D | | | | | | |
| n/N (%) | 258/267 (96.6%) | 151/157 (96.2%) | 107/110 (97.3%) | 262/269 (97.4%) | 154/159 (96.9%) | 108/110 (98.2%) |
| 95% CI for % | (94.5%, 98.8%) | (93.2%, 99.1%) | (94.3%, 99.9%) | (95.3%, 99.5%) | (93.5%, 99.9%) | (95.1%, 99.9%) |
| Change of MRSE (Paired-Differences) in Diopters | | | | | | |
| Mean | 0.127 | 0.147 | 0.098 | 0.081 | 0.088 | 0.070 |
| SD | 0.483 | 0.508 | 0.448 | 0.408 | 0.420 | 0.390 |
| 95% CI for Mean | (0.065, 0.189) | (0.063, 0.231) | (0.007, 0.188) | (0.032, 0.130) | (0.021, 0.155) | (-0.000, 0.141) |
| Change in Spherical Refraction | Between 6 and 9 Months | | | Between 9 and ³ 12 Months | | |
| | Full Cohort | Treated For Sphere Only | Treated For Sphere & Cylinder | Full Cohort | Treated For Sphere Only | Treated For Sphere & Cylinder |
| Change of MRSE by ≤ 1.00 D | | | | | | |
| n/N (%) | 205/210 (97.6%) | 106/109 (97.2%) | 99/101 (98.0%) | 111/112 (99.1%) | 69/70 (98.6%) | 42/42 (100.0%) |
| 95% CI for % | (95.2%, 99.9%) | (93.3%, 99.9%) | (94.7%, 99.9%) | (96.1%, 99.9%) | (93.8%, 99.9%) | (92.2%, 100.0%) |
| Change of MRSE (Paired-Differences) in Diopters | | | | | | |
| Mean | -0.015 | -0.024 | -0.005 | 0.041 | 0.043 | 0.039 |
| SD | 0.388 | 0.429 | 0.338 | 0.352 | 0.351 | 0.363 |
| 95% CI for Mean | (-0.074, 0.044) | (-0.113, 0.065) | (-0.081, 0.071) | (-0.031, 0.113) | (-0.042, 0.128) | (-0.090, 0.167) |

The 95% confidence interval was adjusted for the correlation between eyes.

6-Month Consistent Cohort: All eyes examined at 1, 3, and 6 months.

c. Effectiveness Outcomes

Table 5 presents the key effectiveness variables outcomes for all treated eyes. Key efficacy outcomes stratified by each 0.50 diopter of preoperative MRSE for all treated eyes, eyes treated for spherical hyperopia and eyes treated for hyperopic astigmatism are presented in Tables 6, 7 and 8 respectively.

It will be noted from Table 6 that the three primary outcomes for percent of eyes with 20/40 or better uncorrected visual acuity and percent of eyes within ± 0.50 D and ± 1.00 D of attempted correction are all well above the suggested minimum FDA Guidance values for hyperopia.

The accuracy of the refractive outcomes and the rate of 20/20 UCVA or better are seen to decrease with increasing preoperative MRSE. This is due in part to the increased rate of undercorrections with increasing baseline MRSE as seen in Table 9. Accuracy within 0.50D of intended refractive outcome fell below the target rate of 50% for treatment of MRSE greater than +3.50D. Table 10 shows that undercorrections of greater than 1.00D occurred at a rate of 12.4% and 13.0% at month 6 and month 12 respectively and that the average undercorrections were 0.31D and 0.37D at these visits.

The accuracy of the refractive outcomes and the rate of 20/20 or better UCVA are seen to decrease with increasing preoperative manifest refractive cylinder as shown in Tables 11 and 12. The impact of preoperative cylinder on UCVA is especially noticeable in the group of eyes with 0.50 to 0.75 D cylinder that received spherical treatments.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 5
Summary of Key Effectiveness Variables
All Treated Eyes

| Key Effectiveness Variables | 1 Month | | 3 Months | | 6 Months | | 9 Months | | 12 Months | |
|---|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|
| | n/N (%) | 95%* CI | n/N (%) | 95%* CI | n/N (%) | 95%* CI | n/N (%) | 95%* CI | n/N (%) | 95%* CI |
| UCVA 20/20 or better† | 131/258 (50.8%) | (44.5, 57.0) | 159/265 (60.0%) | (53.6, 66.4) | 143/233 (61.4%) | (54.5, 68.3) | 100/168 (59.5%) | (51.6, 67.4) | 83/141 (58.9%) | (50.7, 67.0) |
| UCVA 20/40 or better† | 243/258 (94.2%) | (91.4, 97.0) | 255/265 (96.2%) | (94.0, 98.5) | 221/233 (94.8%) | (91.6, 98.1) | 161/168 (95.8%) | (92.8, 98.8) | 134/141 (95.0%) | (91.3, 98.8) |
| MRSE‡, Attempted vs. Achieved, ± 0.50 D | 225/331 (68.0%) | (62.6, 73.3) | 222/343 (64.7%) | (59.2, 70.2) | 174/290 (60.0%) | (53.7, 66.3) | 142/222 (64.0%) | (56.7, 71.3) | 109/177 (61.6%) | (53.8, 69.3) |
| MRSE‡, Attempted vs. Achieved, ± 1.00 D | 294/331 (88.8%) | (85.2, 92.4) | 314/343 (91.5%) | (88.4, 94.7) | 251/290 (86.6%) | (81.9, 91.2) | 191/222 (86.0%) | (80.8, 91.3) | 151/177 (85.3%) | (79.5, 91.1) |
| MRSE‡, Attempted vs. Achieved, ± 2.00 D | 328/331 (99.1%) | (97.8, 99.9) | 340/343 (99.1%) | (98.0, 99.9) | 287/290 (99.0%) | (97.6, 99.9) | 220/222 (99.1%) | (97.6, 99.9) | 175/177 (98.9%) | (97.0, 99.9) |
| MRSE‡, from Emmetropia, ± 0.50 D† | 180/256 (70.3%) | (64.7, 75.9) | 193/265 (72.8%) | (67.2, 78.4) | 155/233 (66.5%) | (59.9, 73.1) | 120/168 (71.4%) | (63.8, 79.1) | 95/141 (67.4%) | (58.9, 75.9) |
| MRSE‡, from Emmetropia, ± 1.00 D† | 238/256 (93.0%) | (89.7, 96.2) | 246/265 (92.8%) | (89.5, 96.2) | 209/233 (89.7%) | (85.5, 93.9) | 147/168 (87.5%) | (81.9, 93.1) | 120/141 (85.1%) | (78.9, 91.4) |
| MRSE‡, from Emmetropia, ± 2.00 D† | 254/256 (99.2%) | (97.7, 99.9) | 263/265 (99.2%) | (98.0, 99.9) | 232/233 (99.6%) | (98.1, 99.9) | 167/168 (99.4%) | (97.4, 99.9) | 140/141 (99.3%) | (96.9, 99.9) |

N = Number of CRFs received with non-missing values at each visit.

* The 95% confidence interval was adjusted for the correlation between eyes.

† For all eyes minus those treated for monovision.

‡ MRSE = Manifest Spherical Equivalent = Manifest Sphere + 0.5 × Manifest Cylinder.

One eye (170-7015-B0) received a treatment (+0.75/+0.75 x 180) outside the approved range for sphere.

Table 6
Summary of Key Effectiveness Variables at 6 Months (Stable Point)
Stratified By Preoperative MRSE
All Treated Eyes

| Key Effectiveness Variables | 0.51 to 1.00 D | 1.01 to 1.50 D | 1.51 to 2.00 D | 2.01 to 2.50 D | 2.51 to 3.00 D | 3.01 to 3.50 D | 3.51 to 4.00 D | 4.01 to 4.50 D | 4.51 to 5.00 D | Total |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| | n/N (%) | n/N (%) | n/N (%) | n/N (%) | n/N (%) | n/N (%) | n/N (%) | n/N (%) | n/N (%) | n/N (%) |
| UCVA 20/20 or better† | 8/9 (88.9%) | 33/49 (67.3%) | 42/62 (67.7%) | 23/39 (59.0%) | 22/38 (57.9%) | 5/15 (33.3%) | 8/17 (47.1%) | 2/3 (66.7%) | 0/1 (0.0%) | 143/233 (61.4%) |
| UCVA 20/25 or better† | 9/9 (100.0%) | 44/49 (89.8%) | 51/62 (82.3%) | 29/39 (74.4%) | 31/38 (81.6%) | 8/15 (53.3%) | 11/17 (64.7%) | 2/3 (66.7%) | 0/1 (0.0%) | 185/233 (79.4%) |
| UCVA 20/40 or better† | 9/9 (100.0%) | 49/49 (100.0%) | 57/62 (91.9%) | 36/39 (92.3%) | 37/38 (97.4%) | 14/15 (93.3%) | 15/17 (88.2%) | 3/3 (100.0%) | 1/1 (100.0%) | 221/233 (94.8%) |
| MRSE*, Attempted vs. Achieved, ± 0.50 D | 10/14 (71.4%) | 54/70 (77.1%) | 42/71 (59.2%) | 28/51 (54.9%) | 22/44 (50.0%) | 10/18 (55.6%) | 7/17 (41.2%) | 1/4 (25.0%) | 0/1 (0.0%) | 174/290 (60.0%) |
| MRSE*, Attempted vs. Achieved, ± 1.00 D | 14/14 (100.0%) | 66/70 (94.3%) | 63/71 (88.7%) | 42/51 (82.4%) | 36/44 (81.8%) | 15/18 (83.3%) | 13/17 (76.5%) | 2/4 (50.0%) | 0/1 (0.0%) | 251/290 (86.6%) |
| MRSE*, Attempted vs. Achieved, ± 2.00 D | 14/14 (100.0%) | 70/70 (100.0%) | 70/71 (98.6%) | 51/51 (100.0%) | 43/44 (97.7%) | 18/18 (100.0%) | 16/17 (94.1%) | 4/4 (100.0%) | 1/1 (100.0%) | 287/290 (99.0%) |
| MRSE*, from Emmetropia, ± 0.50 D† | 8/9 (88.9%) | 42/49 (85.7%) | 43/62 (69.4%) | 23/39 (59.0%) | 23/38 (60.5%) | 8/15 (53.3%) | 8/17 (47.1%) | 0/3 (0.0%) | 0/1 (0.0%) | 155/233 (66.5%) |
| MRSE*, from Emmetropia, ± 1.00 D† | 9/9 (100.0%) | 49/49 (100.0%) | 57/62 (91.9%) | 34/39 (87.2%) | 32/38 (84.2%) | 13/15 (86.7%) | 14/17 (82.4%) | 1/3 (33.3%) | 0/1 (0.0%) | 209/233 (89.7%) |
| MRSE*, from Emmetropia, ± 2.00 D† | 9/9 (100.0%) | 49/49 (100.0%) | 62/62 (100.0%) | 39/39 (100.0%) | 38/38 (100.0%) | 15/15 (100.0%) | 16/17 (94.1%) | 3/3 (100.0%) | 1/1 (100.0%) | 232/233 (99.6%) |

N = Number of CRFs received with non-missing values at each visit.

* MRSE = Manifest Spherical Equivalent.

† For all eyes minus those treated for monovision

One eye (170-7015-B0) received a treatment (+0.75/+0.75 x 180) outside the approved range for sphere.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 7
Summary of Key Effectiveness Variables at 6 Months (Stable Point)
Stratified By Preoperative MRSE
Eyes Treated for Spherical Hyperopia Only

| Key Effectiveness Variables | 0.51 to 1.00 D n/N (%) | 1.01 to 1.50 D n/N (%) | 1.51 to 2.00 D n/N (%) | 2.01 to 2.50 D n/N (%) | 2.51 to 3.00 D n/N (%) | 3.01 to 3.50 D n/N (%) | 3.51 to 4.00 D n/N (%) | 4.01 to 4.50 D n/N (%) | 4.51 to 5.00 D n/N (%) | Total n/N (%) |
|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------|
| UCVA 20/20 or better† | 8/9 (88.9%) | 20/34 (58.8%) | 25/35 (71.4%) | 14/27 (51.9%) | 11/22 (50.0%) | 2/8 (25.0%) | 6/10 (60.0%) | NA | NA | 86/145 (59.3%) |
| UCVA 20/25 or better† | 9/9 (100.0%) | 29/34 (85.3%) | 29/35 (82.9%) | 18/27 (66.7%) | 17/22 (77.3%) | 3/8 (37.5%) | 7/10 (70.0%) | NA | NA | 112/145 (77.2%) |
| UCVA 20/40 or better† | 9/9 (100.0%) | 34/34 (100.0%) | 32/35 (91.4%) | 25/27 (92.6%) | 22/22 (100.0%) | 7/8 (87.5%) | 10/10 (100.0%) | NA | NA | 139/145 (95.9%) |
| MRSE*, Attempted vs. Achieved, ± 0.50 D | 9/13 (69.2%) | 35/44 (79.5%) | 25/43 (58.1%) | 17/32 (53.1%) | 13/27 (48.1%) | 3/9 (33.3%) | 3/10 (30.0%) | NA | NA | 105/178 (59.0%) |
| MRSE*, Attempted vs. Achieved, ± 1.00 D | 13/13 (100.0%) | 42/44 (95.5%) | 37/43 (86.0%) | 26/32 (81.3%) | 21/27 (77.8%) | 6/9 (66.7%) | 8/10 (80.0%) | NA | NA | 153/178 (86.0%) |
| MRSE*, Attempted vs. Achieved, ± 2.00 D | 13/13 (100.0%) | 44/44 (100.0%) | 42/43 (97.7%) | 32/32 (100.0%) | 27/27 (100.0%) | 9/9 (100.0%) | 9/10 (90.0%) | NA | NA | 176/178 (98.9%) |
| MRSE*, from Emmetropia, ± 0.50 D† | 8/9 (88.9%) | 30/34 (88.2%) | 26/35 (74.3%) | 14/27 (51.9%) | 14/22 (63.6%) | 2/8 (25.0%) | 4/10 (40.0%) | NA | NA | 98/145 (67.6%) |
| MRSE*, from Emmetropia, ± 1.00 D† | 9/9 (100.0%) | 34/34 (100.0%) | 31/35 (88.6%) | 24/27 (88.9%) | 17/22 (77.3%) | 6/8 (75.0%) | 9/10 (90.0%) | NA | NA | 130/145 (89.7%) |
| MRSE*, from Emmetropia, ± 2.00 D† | 9/9 (100.0%) | 34/34 (100.0%) | 35/35 (100.0%) | 27/27 (100.0%) | 22/22 (100.0%) | 8/8 (100.0%) | 9/10 (90.0%) | NA | NA | 144/145 (99.3%) |

N = Number of CRFs received with non-missing values at each visit.

* MRSE = Manifest Spherical Equivalent.

† For all eyes minus those treated for monovision

Table 8
Summary of Key Effectiveness Variables at 6 Months (Stable Point)
Stratified By Preoperative MRSE
Eyes Treated for Astigmatic Hyperopia

| Key Effectiveness Variables | 0.51 to 1.00 D n/N (%) | 1.01 to 1.50 D n/N (%) | 1.51 to 2.00 D n/N (%) | 2.01 to 2.50 D n/N (%) | 2.51 to 3.00 D n/N (%) | 3.01 to 3.50 D n/N (%) | 3.51 to 4.00 D n/N (%) | 4.01 to 4.50 D n/N (%) | 4.51 to 5.00 D n/N (%) | Total n/N (%) |
|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------|
| UCVA 20/20 or better† | NA | 13/15 (86.7%) | 17/27 (63.0%) | 9/12 (75.0%) | 11/16 (68.8%) | 3/7 (42.9%) | 2/7 (28.6%) | 2/3 (66.7%) | 0/1 (0.0%) | 57/88 (64.8%) |
| UCVA 20/25 or better† | NA | 15/15 (100.0%) | 22/27 (81.5%) | 11/12 (91.7%) | 14/16 (87.5%) | 5/7 (71.4%) | 4/7 (57.1%) | 2/3 (66.7%) | 0/1 (0.0%) | 73/88 (83.0%) |
| UCVA 20/40 or better† | NA | 15/15 (100.0%) | 25/27 (92.6%) | 11/12 (91.7%) | 15/16 (93.8%) | 7/7 (100.0%) | 5/7 (71.4%) | 3/3 (100.0%) | 1/1 (100.0%) | 82/88 (93.2%) |
| MRSE*, Attempted vs. Achieved, ± 0.50 D | 1/1 (100.0%) | 19/26 (73.1%) | 17/28 (60.7%) | 11/19 (57.9%) | 9/17 (52.9%) | 7/9 (77.8%) | 4/7 (57.1%) | 1/4 (25.0%) | 0/1 (0.0%) | 69/112 (61.6%) |
| MRSE*, Attempted vs. Achieved, ± 1.00 D | 1/1 (100.0%) | 24/26 (92.3%) | 26/28 (92.9%) | 16/19 (84.2%) | 15/17 (88.2%) | 9/9 (100.0%) | 5/7 (71.4%) | 2/4 (50.0%) | 0/1 (0.0%) | 98/112 (87.5%) |
| MRSE*, Attempted vs. Achieved, ± 2.00 D | 1/1 (100.0%) | 26/26 (100.0%) | 28/28 (100.0%) | 19/19 (100.0%) | 16/17 (94.1%) | 9/9 (100.0%) | 7/7 (100.0%) | 4/4 (100.0%) | 1/1 (100.0%) | 111/112 (99.1%) |
| MRSE*, from Emmetropia, ± 0.50 D† | NA | 12/15 (80.0%) | 17/27 (63.0%) | 9/12 (75.0%) | 9/16 (56.3%) | 6/7 (85.7%) | 4/7 (57.1%) | 0/3 (0.0%) | 0/1 (0.0%) | 57/88 (64.8%) |
| MRSE*, from Emmetropia, ± 1.00 D† | NA | 15/15 (100.0%) | 26/27 (96.3%) | 10/12 (83.3%) | 15/16 (93.8%) | 7/7 (100.0%) | 5/7 (71.4%) | 1/3 (33.3%) | 0/1 (0.0%) | 79/88 (89.8%) |
| MRSE*, from Emmetropia, ± 2.00 D† | NA | 15/15 (100.0%) | 27/27 (100.0%) | 12/12 (100.0%) | 16/16 (100.0%) | 7/7 (100.0%) | 7/7 (100.0%) | 3/3 (100.0%) | 1/1 (100.0%) | 88/88 (100.0%) |

N = Number of CRFs received with non-missing values at each visit.

* MRSE = Manifest Spherical Equivalent.

† For all eyes minus those treated for monovision

One eye (170-7015-B0) received a treatment (+0.75/+0.75 x 180) outside the approved range for sphere.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 9
Accuracy of Manifest Spherical Equivalent at 6 Months — Attempted vs Achieved
Stratified By Preoperative MRSE
All Treated Eyes

| Deviation | 0.51 to 1.00 D‡ n/N (%) | 1.01 to 1.50 D n/N (%) | 1.51 to 2.00 D n/N (%) | 2.01 to 2.50 D n/N (%) | 2.51 to 3.00 D n/N (%) | 3.01 to 3.50 D n/N (%) | 3.51 to 4.00 D n/N (%) | 4.01 to 4.50 D n/N (%) | 4.51 to 5.00 D‡ n/N (%) |
|--------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| ±0.50 D | 10/14 (71.4%) | 54/70 (77.1%) | 42/71 (59.2%) | 28/51 (54.9%) | 22/44 (50.0%) | 10/18 (55.6%) | 7/17 (41.2%) | 1/4 (25.0%) | 0/1 (0.0%) |
| ±1.00 D | 14/14 (100.0%) | 66/70 (94.3%) | 63/71 (88.7%) | 42/51 (82.4%) | 36/44 (81.8%) | 15/18 (83.3%) | 13/17 (76.5%) | 2/4 (50.0%) | 0/1 (0.0%) |
| ±2.00 D | 14/14 (100.0%) | 70/70 (100.0%) | 70/71 (98.6%) | 51/51 (100.0%) | 43/44 (97.7%) | 18/18 (100.0%) | 16/17 (94.1%) | 4/4 (100.0%) | 1/1 (100.0%) |
| <i>Mean (SD)</i> | <i>0.30 (0.28)</i> | <i>0.19 (0.48)</i> | <i>0.36 (0.63)</i> | <i>0.24 (0.70)</i> | <i>0.52 (0.70)</i> | <i>0.09 (0.74)</i> | <i>0.46 (0.95)</i> | <i>0.56 (1.25)</i> | <i>1.13 (.)</i> |
| <i>Range</i> | <i>0.00 to 0.75</i> | <i>-1.13 to 1.38</i> | <i>-1.00 to 2.38</i> | <i>-1.25 to 1.63</i> | <i>-0.75 to 2.75</i> | <i>-1.00 to 1.50</i> | <i>-0.75 to 2.50</i> | <i>-0.75 to 1.75</i> | <i>1.13 to 1.13</i> |
| Not reported* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total† | 14 | 70 | 71 | 51 | 44 | 18 | 17 | 4 | 1 |
| Overcorrected > 1 | 0/14 (0.0%) | 1/70 (1.4%) | 0/71 (0.0%) | 2/51 (3.9%) | 0/44 (0.0%) | 0/18 (0.0%) | 0/17 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) |
| Overcorrected > 2 | 0/14 (0.0%) | 0/70 (0.0%) | 0/71 (0.0%) | 0/51 (0.0%) | 0/44 (0.0%) | 0/18 (0.0%) | 0/17 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) |
| Undercorrected > 1 | 0/14 (0.0%) | 3/70 (4.3%) | 8/71 (11.3%) | 7/51 (13.7%) | 8/44 (18.2%) | 3/18 (16.7%) | 4/17 (23.5%) | 2/4 (50.0%) | 1/1 (100.0%) |
| Undercorrected > 2 | 0/14 (0.0%) | 0/70 (0.0%) | 1/71 (1.4%) | 0/51 (0.0%) | 1/44 (2.3%) | 0/18 (0.0%) | 1/17 (5.9%) | 0/4 (0.0%) | 0/1 (0.0%) |
| <i>Mean (SD)</i> | <i>0.30 (0.28)</i> | <i>0.19 (0.48)</i> | <i>0.36 (0.63)</i> | <i>0.24 (0.70)</i> | <i>0.52 (0.70)</i> | <i>0.09 (0.74)</i> | <i>0.46 (0.95)</i> | <i>0.56 (1.25)</i> | <i>1.13 (.)</i> |
| <i>Range</i> | <i>0.00 to 0.75</i> | <i>-1.13 to 1.38</i> | <i>-1.00 to 2.38</i> | <i>-1.25 to 1.63</i> | <i>-0.75 to 2.75</i> | <i>-1.00 to 1.50</i> | <i>-0.75 to 2.50</i> | <i>-0.75 to 1.75</i> | <i>1.13 to 1.13</i> |
| Not reported* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total† | 14 | 70 | 71 | 51 | 44 | 18 | 17 | 4 | 1 |

N = Number of CRFs received with non-missing values at each visit.

* Number of CRFs received with missing values at each visit.

† Number of CRFs received at each visit.

‡ Lowest Preoperative MRSE = 0.75D. Highest Preoperative MRSE = 4.875D.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 10
Accuracy of Manifest Spherical Equivalent — Attempted vs Achieved
All Treated Eyes

| Deviation | 1 Month n/N (%) | 3 Months n/N (%) | 6 Months n/N (%) | 9 Months n/N (%) | ³ 12 Months n/N (%) |
|--------------------|----------------------|----------------------|----------------------|----------------------|-----------------------------------|
| ±0.50 D | 225/331 (68.0%) | 222/343 (64.7%) | 174/290 (60.0%) | 142/222 (64.0%) | 109/177 (61.6%) |
| ±1.00 D | 294/331 (88.8%) | 314/343 (91.5%) | 251/290 (86.6%) | 191/222 (86.0%) | 151/177 (85.3%) |
| ±2.00 D | 328/331 (99.1%) | 340/343 (99.1%) | 287/290 (99.0%) | 220/222 (99.1%) | 175/177 (98.9%) |
| <i>Mean (SD)</i> | <i>0.09 (0.67)</i> | <i>0.20 (0.62)</i> | <i>0.31 (0.66)</i> | <i>0.29 (0.65)</i> | <i>0.37 (0.66)</i> |
| <i>Range</i> | <i>-2.25 to 2.63</i> | <i>-1.50 to 2.75</i> | <i>-1.25 to 2.75</i> | <i>-1.75 to 3.13</i> | <i>-1.38 to 3.38</i> |
| Not reported* | 2 | 0 | 0 | 0 | 1 |
| Total† | 333 | 343 | 290 | 222 | 178 |
| Overcorrected > 1 | 13/331 (3.9%) | 6/343 (1.7%) | 3/290 (1.0%) | 5/222 (2.3%) | 3/177 (1.7%) |
| Overcorrected > 2 | 2/331 (0.6%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/177 (0.0%) |
| Undercorrected > 1 | 24/331 (7.3%) | 23/343 (6.7%) | 36/290 (12.4%) | 26/222 (11.7%) | 23/177 (13.0%) |
| Undercorrected > 2 | 1/331 (0.3%) | 3/343 (0.9%) | 3/290 (1.0%) | 2/222 (0.9%) | 2/177 (1.1%) |
| <i>Mean (SD)</i> | <i>0.09 (0.67)</i> | <i>0.20 (0.62)</i> | <i>0.31 (0.66)</i> | <i>0.29 (0.65)</i> | <i>0.37 (0.66)</i> |
| <i>Range</i> | <i>-2.25 to 2.63</i> | <i>-1.50 to 2.75</i> | <i>-1.25 to 2.75</i> | <i>-1.75 to 3.13</i> | <i>-1.38 to 3.38</i> |
| Not reported* | 2 | 0 | 0 | 0 | 1 |
| Total† | 333 | 343 | 290 | 222 | 178 |

N = Number of CRFs received with non-missing values at each visit.

* Number of CRFs received with missing values at each visit.

† Number of CRFs received at each visit.

Table 11
Summary of Key Effectiveness Variables at 6 Months
Stratified By Preoperative MRCYL*
Eyes Treated for Spherical Hyperopia Only

| Key Effectiveness Variables | 0.00 D | 0.25 D | 0.50 to 0.75 D | Total |
|--|----------------|----------------|-------------------|-----------------|
| | n/N (%) | n/N (%) | n/N (%) | n/N (%) |
| UCVA 20/20 or better† | 39/52 (75.0%) | 30/43 (69.8%) | 17/50 (34.0%) | 86/145 (59.3%) |
| UCVA 20/40 or better† | 50/52 (96.2%) | 43/43 (100.0%) | 46/50 (92.0%) | 139/145 (95.9%) |
| MRSE, Attempted vs. Achieved, ± 0.50 D | 42/65 (64.6%) | 32/57 (56.1%) | 31/56 (55.4%) | 105/178 (59.0%) |
| MRSE, Attempted vs. Achieved, ± 1.00 D | 58/65 (89.2%) | 47/57 (82.5%) | 48/56 (85.7%) | 153/178 (86.0%) |
| MRSE, Attempted vs. Achieved, ± 2.00 D | 65/65 (100.0%) | 56/57 (98.2%) | 55/56 (98.2%) | 176/178 (98.9%) |
| MRSE, from Emmetropia, ± 0.50 D† | 36/52 (69.2%) | 29/43 (67.4%) | 33/50 (66.0%) | 98/145 (67.6%) |
| MRSE, from Emmetropia, ± 1.00 D† | 48/52 (92.3%) | 38/43 (88.4%) | 44/50 (88.0%) | 130/145 (89.7%) |
| MRSE, from Emmetropia, ± 2.00 D† | 52/52 (100.0%) | 43/43 (100.0%) | 49/50 (98.0%) | 144/145 (99.3%) |

N = Number of CRFs received with non-missing values at each visit.

* MRCYL = Manifest Refraction Cylinder Power

† For all eyes minus those treated for monovision

Table 12
Summary of Key Effectiveness Variables at 6 Months
Stratified By Preoperative MRCYL*
Eyes Treated for Astigmatic Hyperopia

| Key Effectiveness Variables | 0.25 to 0.99 D | 1.00 to 1.74 D | 1.75 to 2.00 D | Total |
|--|-------------------|-------------------|-------------------|-----------------|
| | n/N (%) | n/N (%) | n/N (%) | n/N (%) |
| UCVA 20/20 or better† | 35/48 (72.9%) | 16/29 (55.2%) | 6/11 (54.5%) | 57/88 (64.8%) |
| UCVA 20/40 or better† | 46/48 (95.8%) | 27/29 (93.1%) | 9/11 (81.8%) | 82/88 (93.2%) |
| MRSE, Attempted vs. Achieved, ± 0.50 D | 39/60 (65.0%) | 25/41 (61.0%) | 5/11 (45.5%) | 69/112 (61.6%) |
| MRSE, Attempted vs. Achieved, ± 1.00 D | 53/60 (88.3%) | 37/41 (90.2%) | 8/11 (72.7%) | 98/112 (87.5%) |
| MRSE, Attempted vs. Achieved, ± 2.00 D | 60/60 (100.0%) | 40/41 (97.6%) | 11/11 (100.0%) | 111/112 (99.1%) |
| MRSE, from Emmetropia, ± 0.50 D† | 33/48 (68.8%) | 19/29 (65.5%) | 5/11 (45.5%) | 57/88 (64.8%) |
| MRSE, from Emmetropia, ± 1.00 D† | 43/48 (89.6%) | 28/29 (96.6%) | 8/11 (72.7%) | 79/88 (89.8%) |
| MRSE, from Emmetropia, ± 2.00 D† | 48/48 (100.0%) | 29/29 (100.0%) | 11/11 (100.0%) | 88/88 (100.0%) |

N = Number of CRFs received with non-missing values at each visit.

* MRCYL = Manifest Refraction Cylinder Power

† For all eyes minus those treated for monovision

One eye (170-7015-B0) received a treatment (+0.75/+0.75 x 1 80) outside the approved range for sphere

Table 13 summarizes the increase in astigmatic vector magnitude, or induced astigmatism for spherical treatments stratified by the attempted level of treatment. This table shows that spherical only treatment in eyes with low cylinder (<1D) at baseline appears to induce more astigmatism (which increases with the amount of attempted spherical correction). Tables 11 and 12 show the impact of the amount of preoperative cylinder on the key efficacy outcomes. These tables demonstrate that astigmatic treatment appears to result in better effectiveness outcomes.

There was a strong tendency for overcorrection of cylinder, with a significant number of eyes with large axis shifts and residual astigmatism. The overcorrection of astigmatism averaged 0.22D and affected UCVA 20/20 outcome. Spherical corrections induced greater amounts of astigmatism than present at baseline

Table 13
Increase in Astigmatic Vector Magnitude (SIRC – IRC)
at the Point of Stability (6 months) Stratified by Attempted Spherical Correction

| Statistics | Attempted Spherical Correction | | | | | | |
|------------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 0.51 to 1.00 D | 1.01 to 1.50 D | 1.51 to 2.00 D | 2.01 to 3.50 D | 2.51 to 3.00 D | 3.01 to 4.50 D | 3.51 to 4.00 D |
| N | 8 | 35 | 34 | 36 | 31 | 17 | 17 |
| MEAN | 0.34 | 0.47 | 0.48 | 0.51 | 0.57 | 0.62 | 0.71 |
| MEDIAN | 0.26 | 0.50 | 0.46 | 0.50 | 0.41 | 0.50 | 0.57 |
| STD | 0.13 | 0.30 | 0.36 | 0.36 | 0.49 | 0.56 | 0.48 |
| MIN | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAX | 0.50 | 1.25 | 1.50 | 1.69 | 1.85 | 2.25 | 1.83 |

IRC = square root of (preop*preop + itt*itt - 2*preop*itt*cos).

SIRC = square root of (preop*preop + postop*postop - 2*preop*postop*cos.)

Where preop = preop cylinder, postop = postop cylinder, itt = intended postop cylinder, & cos = cosine of the axis difference between preop & itt or preop & postop.

Since attempted cylindrical correction = 0, intended postop cylinder = preop cylinder.

Table 14 presents percent reduction of absolute cylinder and achieved vs. intended vector magnitude ratio (SIRC/IRC) at the point of stability, stratified by diopter of preoperative cylinder. The vector magnitude ratio (SIRC/IRC) was 1.33 at 6 months, which was the point of refractive stability. Overcorrection of astigmatism was most pronounced when treating less than 1.00D cylinder as shown by the mean SIRC/IRC ratio of 1.49 in this group. Table 15 shows that the large axis shifts (greater than 30°) that result from overcorrections were most often associated with less than 1.00D of residual astigmatism. Overcorrections of this nature contributed to the low mean percent reduction ($7.5 \pm 87.5\%$) of absolute cylinder reported in Table 14.

Table 14
Cylinder Correction Effectiveness at the Point of Stability (6 months) Stratified By Preoperative Cylinder - Astigmatic Hyperopia Eyes With Complete Preoperative and Postoperative Refraction

| Preoperative Cylinder | Percent Reduction of Absolute Cylinder (Not Vector)* | | | Achieved vs Intended Vector Magnitude Ratio (SIRC/IRC)† | | |
|-----------------------|--|---------------|--------------------------|---|-------------|---------------------|
| | N | Mean (SD) | Median (Range) | N | Mean (SD) | Median (Range) |
| 0.25 to 0.99 D | 60 | 7.50 (87.46) | 16.67 (-300.0 to 100.00) | 60 | 1.49 (0.83) | 1.20 (0.12 to 4.07) |
| 1.00 to 1.74 D | 41 | 51.26 (40.14) | 50.00 (-100.0 to 100.00) | 41 | 1.19 (0.47) | 1.05 (0.31 to 2.99) |
| 1.75 to 2.00 D | 11 | 59.58 (39.92) | 71.43 (-12.50 to 100.00) | 11 | 1.06 (0.40) | 0.99 (0.58 to 2.05) |
| Total | 112 | 28.63 (72.91) | 45.00 (-300.0 to 100.00) | 112 | 1.33 (0.70) | 1.04 (0.12 to 4.07) |

* Data with a preoperative manifest cylinder = 0 were excluded from the 'Percent Reduction of Absolute Cylinder' calculations

† Data with an IRC = 0 were excluded from the 'SIRC/IRC' calculation.

Percent Reduction of Absolute Cylinder = Reduction of Absolute Cylinder ÷ Preop. Cylinder × 100. A negative value means an increase in astigmatism.

IRC = square root of (preop × preop + itt × itt - 2 × preop × itt × cos).

SIRC = square root of (preop × preop + postop × postop - 2 × preop × postop × cos.)

Where preop = preop cylinder, postop = postop cylinder, itt = intended postop cylinder, & cos = cosine of the axis difference between preop & itt or preop & postop.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 15
Report of the Residual Astigmatic Error at 6 Months
Stratified by Preoperative Diopter of Absolute Cylinder
Eyes Treated for Astigmatic Hyperopia

| Preoperative Diopter of Absolute Cylinder | Residual Manifest Cylinder Magnitude | Absolute Shift in Manifest Axis | | | | | Total n/N (%) |
|--|--------------------------------------|---------------------------------|-----------------------|------------------------|------------------------|----------------------|-----------------------|
| | | £ 5° n/N (%) | > 5° to £ 10° n/N (%) | > 10° to £ 15° n/N (%) | > 15° to £ 30° n/N (%) | > 30° n/N (%) | |
| Preoperative Manifest Cylinder 0.25 to 0.99 D Not reported = 0 # of CRFs with non-missing value = 60 Total # of CRFs received = 60 | 0.00 to <0.50 D | 15/60 (25.0%) | 1/60 (1.7%) | 0/60 (0.0%) | 4/60 (6.7%) | 4/60 (6.7%) | 24/60 (40.0%) |
| | 0.50 to <1.00 D | 3/60 (5.0%) | 1/60 (1.7%) | 0/60 (0.0%) | 4/60 (6.7%) | 17/60 (28.3%) | 25/60 (41.7%) |
| | 1.00 to <2.00 D | 0/60 (0.0%) | 1/60 (1.7%) | 0/60 (0.0%) | 0/60 (0.0%) | 10/60 (16.7%) | 11/60 (18.3%) |
| | 2.00 to <3.00 D | 0/60 (0.0%) | 0/60 (0.0%) | 0/60 (0.0%) | 0/60 (0.0%) | 0/60 (0.0%) | 0/60 (0.0%) |
| | Total | 18/60 (30.0%) | 3/60 (5.0%) | 0/60 (0.0%) | 8/60 (13.3%) | 31/60 (51.7%) | 60/60 (100.0%) |
| Preoperative Manifest Cylinder 1.00 to 1.74 D Not reported = 0 # of CRFs with non-missing value = 41 Total # of CRFs received = 41 | 0.00 to <0.50 D | 10/41 (24.4%) | 0/41 (0.0%) | 0/41 (0.0%) | 0/41 (0.0%) | 1/41 (2.4%) | 11/41 (26.8%) |
| | 0.50 to <1.00 D | 1/41 (2.4%) | 4/41 (9.8%) | 0/41 (0.0%) | 1/41 (2.4%) | 17/41 (41.5%) | 23/41 (56.1%) |
| | 1.00 to <2.00 D | 0/41 (0.0%) | 1/41 (2.4%) | 0/41 (0.0%) | 0/41 (0.0%) | 5/41 (12.2%) | 6/41 (14.6%) |
| | 2.00 to <3.00 D | 0/41 (0.0%) | 0/41 (0.0%) | 0/41 (0.0%) | 0/41 (0.0%) | 1/41 (2.4%) | 1/41 (2.4%) |
| | Total | 11/41 (26.8%) | 5/41 (12.2%) | 0/41 (0.0%) | 1/41 (2.4%) | 24/41 (58.5%) | 41/41 (100.0%) |
| Preoperative Manifest Cylinder 1.75 to 2.00 D Not reported = 0 # of CRFs with non-missing value = 11 Total # of CRFs received = 11 | 0.00 to <0.50 D | 3/11 (27.3%) | 0/11 (0.0%) | 0/11 (0.0%) | 1/11 (9.1%) | 0/11 (0.0%) | 4/11 (36.4%) |
| | 0.50 to <1.00 D | 1/11 (9.1%) | 0/11 (0.0%) | 1/11 (9.1%) | 0/11 (0.0%) | 2/11 (18.2%) | 4/11 (36.4%) |
| | 1.00 to <2.00 D | 0/11 (0.0%) | 0/11 (0.0%) | 0/11 (0.0%) | 1/11 (9.1%) | 0/11 (0.0%) | 1/11 (9.1%) |
| | 2.00 to <3.00 D | 0/11 (0.0%) | 0/11 (0.0%) | 0/11 (0.0%) | 0/11 (0.0%) | 2/11 (18.2%) | 2/11 (18.2%) |
| | Total | 4/11 (36.4%) | 0/11 (0.0%) | 1/11 (9.1%) | 2/11 (18.2%) | 4/11 (36.4%) | 11/11 (100.0%) |

Axis shift = 0 for eyes with a postoperative cylinder = 0.
 N = # of CRFs with non-missing value.

d. Safety Outcomes

The key safety variables for all treated eyes are presented in Table 16. Key safety outcomes stratified by each 0.50 diopter of preoperative MRSE for all treated eyes, eyes treated for spherical hyperopia and eyes treated for hyperopic astigmatism are presented in Tables 17, 18 and 19 respectively.

Note from Tables 18 and 19 that most reports of Key Safety findings occurred in eyes treated for spherical hyperopia only and only 2 occurred in eyes treated for hyperopic astigmatism. Six out of the 8 eyes with ≥ 2 lines of BSCVA loss at 6 months had returned to within 1 line of the preoperative BSCVA at the last available visit. The 2 eyes with a sustained 2-line loss had BSCVA of 20/20 and 20/25.

Table 20 provides a listing of all adverse events reported during the study at each visit period along with the overall cumulative adverse event rate.

Table 21 presents a summary of all complications reported for all treated eyes during the course of the study. The most commonly reported complication was debris in the interface, reported at least once for 15.1% of eyes. Debris continued to be reported for 9 eyes (3.1%) at the 6 month visit.

Patient symptoms were graded according to severity as either none, mild, moderate, marked, or severe, grade 0 to grade 4 respectively. Any symptom for which there is a one-grade increase from baseline is considered “worse”, while an increase of 2 or more grades is considered “significantly worse”. Table 22 presents the rate at which increased symptoms were reported at the 6-month and 12-month visits.

Table 16
Summary of Key Safety Variables
All Treated Eyes

| Key Safety Variables | 1 Month n/N (%) | 3 Months n/N (%) | 6 Months n/N (%) | 9 Months n/N (%) | ³ 12 Months n/N (%) |
|--|--------------------|---------------------|---------------------|---------------------|-----------------------------------|
| Loss of ≥ 2 lines BSCVA | 27/328 (8.2%) | 16/341 (4.7%) | 8/290 (2.8%) | 9/220 (4.1%) | 8/172 (4.7%) |
| Loss of > 2 lines BSCVA | 5/328 (1.5%) | 5/341 (1.5%) | 2/290 (0.7%) | 1/220 (0.5%) | 0/172 (0.0%) |
| BSCVA worse than 20/40 | 2/333 (0.6%) | 2/341 (0.6%) | 0/290 (0.0%) | 1/221 (0.5%) | 0/177 (0.0%) |
| BSCVA worse than 20/25 if 20/20 or better preoperatively | 14/310 (4.5%) | 8/319 (2.5%) | 3/268 (1.1%) | 3/204 (1.5%) | 4/168 (2.4%) |
| Haze \geq trace with loss of BSCVA > 2 lines | 0/333 (0.0%) | 0/341 (0.0%) | 0/290 (0.0%) | 0/221 (0.0%) | 0/177 (0.0%) |
| Increased manifest refractive astigmatism > 2.0 D* | 1/184 (0.5%) | 2/196 (1.0%) | 1/178 (0.6%) | 2/119 (1.7%) | 0/130 (0.0%) |
| Refractive astigmatism treatment error > 2.0 D† | 2/143 (1.4%) | 1/147 (0.7%) | 2/112 (1.8%) | 0/103 (0.0%) | 0/44 (0.0%) |

N = Number of CRFs received with non-missing values at each visit.

* For eyes treated for spherical hyperopia only.

† For eyes treated for astigmatic hyperopia.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 17
Summary of Key Safety Variables at 6 Months (Stable Point)
Stratified By Preoperative MRSE*
All Treated Eyes

| Key Safety Variables | 0.51 to 1.00 D n/N (%) | 1.01 to 1.50 D n/N (%) | 1.51 to 2.00 D n/N (%) | 2.01 to 2.50 D n/N (%) | 2.51 to 3.00 D n/N (%) | 3.01 to 3.50 D n/N (%) | 3.51 to 4.00 D n/N (%) | 4.01 to 4.50 D n/N (%) | 4.51 to 5.00 D n/N (%) | Total n/N (%) |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------|
| Loss of ≥ 2 lines BSCVA | 0/14 (0.0%) | 0/70 (0.0%) | 4/71 (5.6%) | 4/51 (7.8%) | 0/44 (0.0%) | 0/18 (0.0%) | 0/17 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 8/290 (2.8%) |
| Loss of > 2 lines BSCVA | 0/14 (0.0%) | 0/70 (0.0%) | 2/71 (2.8%) | 0/51 (0.0%) | 0/44 (0.0%) | 0/18 (0.0%) | 0/17 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 2/290 (0.7%) |
| BSCVA worse than 20/40 | 0/14 (0.0%) | 0/70 (0.0%) | 0/71 (0.0%) | 0/51 (0.0%) | 0/44 (0.0%) | 0/18 (0.0%) | 0/17 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 0/290 (0.0%) |
| BSCVA worse than 20/25 if 20/20 or better preoperatively | 0/14 (0.0%) | 0/68 (0.0%) | 2/69 (2.9%) | 1/48 (2.1%) | 0/38 (0.0%) | 0/15 (0.0%) | 0/13 (0.0%) | 0/3 (0.0%) | NA | 3/268 (1.1%) |
| Haze ≥ trace with loss of BSCVA > 2 lines | 0/14 (0.0%) | 0/70 (0.0%) | 0/71 (0.0%) | 0/51 (0.0%) | 0/44 (0.0%) | 0/18 (0.0%) | 0/17 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 0/290 (0.0%) |
| Increased manifest refractive astigmatism > 2.0 D§ | 0/13 (0.0%) | 0/44 (0.0%) | 0/43 (0.0%) | 0/32 (0.0%) | 0/27 (0.0%) | 1/9 (11.1%) | 0/10 (0.0%) | NA | NA | 1/178 (0.6%) |
| Refractive astigmatism treatment error > 2.0 D† | 0/1 (0.0%) | 0/26 (0.0%) | 1/28 (3.6%) | 1/19 (5.3%) | 0/17 (0.0%) | 0/9 (0.0%) | 0/7 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 2/112 (1.8%) |

N = Number of CRFs received with non-missing values at each visit.

* MRSE = Manifest Spherical Equivalent.

§ For eyes treated for spherical hyperopia only.

† For eyes treated for astigmatic hyperopia.

Table 18
Summary of Key Safety Variables at 6 Months (Stable Point)
Stratified By Preoperative MRSE*
Eyes Treated for Spherical Hyperopia Only

| Key Safety Variables | 0.51 to 1.00 D n/N (%) | 1.01 to 1.50 D n/N (%) | 1.51 to 2.00 D n/N (%) | 2.01 to 2.50 D n/N (%) | 2.51 to 3.00 D n/N (%) | 3.01 to 3.50 D n/N (%) | 3.51 to 4.00 D n/N (%) | 4.01 to 4.50 D n/N (%) | 4.51 to 5.00 D n/N (%) | Total n/N (%) |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------|
| Loss of ≥ 2 lines BSCVA | 0/13 (0.0%) | 0/44 (0.0%) | 4/43 (9.3%) | 4/32 (12.5%) | 0/27 (0.0%) | 0/9 (0.0%) | 0/10 (0.0%) | NA | NA | 8/178 (4.5%) |
| Loss of > 2 lines BSCVA | 0/13 (0.0%) | 0/44 (0.0%) | 2/43 (4.7%) | 0/32 (0.0%) | 0/27 (0.0%) | 0/9 (0.0%) | 0/10 (0.0%) | NA | NA | 2/178 (1.1%) |
| BSCVA worse than 20/40 | 0/13 (0.0%) | 0/44 (0.0%) | 0/43 (0.0%) | 0/32 (0.0%) | 0/27 (0.0%) | 0/9 (0.0%) | 0/10 (0.0%) | NA | NA | 0/178 (0.0%) |
| BSCVA worse than 20/25 if 20/20 or better preoperatively | 0/13 (0.0%) | 0/42 (0.0%) | 2/42 (4.8%) | 1/29 (3.4%) | 0/23 (0.0%) | 0/7 (0.0%) | 0/8 (0.0%) | NA | NA | 3/164 (1.8%) |
| Haze ≥ trace with loss of BSCVA > 2 lines | 0/13 (0.0%) | 0/44 (0.0%) | 0/43 (0.0%) | 0/32 (0.0%) | 0/27 (0.0%) | 0/9 (0.0%) | 0/10 (0.0%) | NA | NA | 0/178 (0.0%) |
| Increased manifest refractive astigmatism > 2.0 D | 0/13 (0.0%) | 0/44 (0.0%) | 0/43 (0.0%) | 0/32 (0.0%) | 0/27 (0.0%) | 1/9 (11.1%) | 0/10 (0.0%) | NA | NA | 1/178 (0.6%) |

N = Number of CRFs received with non-missing values at each visit.

* MRSE = Manifest Spherical Equivalent.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 19
Summary of Key Safety Variables at 6 Months (Stable Point)
Stratified By Preoperative MRSE*
Eyes Treated for Astigmatic Hyperopia

| Key Effectiveness Variables | 0.51 to 1.00 D n/N (%) | 1.01 to 1.50 D n/N (%) | 1.51 to 2.00 D n/N (%) | 2.01 to 2.50 D n/N (%) | 2.51 to 3.00 D n/N (%) | 3.01 to 3.50 D n/N (%) | 3.51 to 4.00 D n/N (%) | 4.01 to 4.50 D n/N (%) | 4.51 to 5.00 D n/N (%) | Total n/N (%) |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------|
| Loss of ≥ 2 lines BSCVA | 0/1 (0.0%) | 0/26 (0.0%) | 0/28 (0.0%) | 0/19 (0.0%) | 0/17 (0.0%) | 0/9 (0.0%) | 0/7 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 0/112 (0.0%) |
| Loss of > 2 lines BSCVA | 0/1 (0.0%) | 0/26 (0.0%) | 0/28 (0.0%) | 0/19 (0.0%) | 0/17 (0.0%) | 0/9 (0.0%) | 0/7 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 0/112 (0.0%) |
| BSCVA worse than 20/40 | 0/1 (0.0%) | 0/26 (0.0%) | 0/28 (0.0%) | 0/19 (0.0%) | 0/17 (0.0%) | 0/9 (0.0%) | 0/7 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 0/112 (0.0%) |
| BSCVA worse than 20/25 if 20/20 or better preoperatively | 0/1 (0.0%) | 0/26 (0.0%) | 0/27 (0.0%) | 0/19 (0.0%) | 0/15 (0.0%) | 0/8 (0.0%) | 0/5 (0.0%) | 0/3 (0.0%) | NA | 0/104 (0.0%) |
| Haze ≥ trace with loss of BSCVA > 2 lines | 0/1 (0.0%) | 0/26 (0.0%) | 0/28 (0.0%) | 0/19 (0.0%) | 0/17 (0.0%) | 0/9 (0.0%) | 0/7 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 0/112 (0.0%) |
| Increased manifest refractive astigmatism > 2.0 D | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Refractive astigmatism treatment error > 2.0 D† | 0/1 (0.0%) | 0/26 (0.0%) | 1/28 (3.6%) | 1/19 (5.3%) | 0/17 (0.0%) | 0/9 (0.0%) | 0/7 (0.0%) | 0/4 (0.0%) | 0/1 (0.0%) | 2/112 (1.8%) |

N = Number of CRFs received with non-missing values at each visit.

* MRSE = Manifest Spherical Equivalent.

† For eyes treated for astigmatic hyperopia.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 20
Adverse Events Summary — All Treated Eyes

| All Reported Adverse Events | 1 Day n/N (%) | 7 Day n/N (%) | 1 Month n/N (%) | 3 Months n/N (%) | 6 Months n/N (%) | 9 Months n/N (%) | ³ 12 Months n/N (%) | Cumulative n/N (%) |
|--|------------------|------------------|--------------------|---------------------|---------------------|---------------------|-----------------------------------|-----------------------|
| Angioplasty | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 2/178 (1.1%) | 2/358 (0.6%) |
| Anterior membrane dystrophy | 1/355 (0.3%) | 1/339 (0.3%) | 2/333 (0.6%) | 4/343 (1.2%) | 3/290 (1.0%) | 3/222 (1.4%) | 1/178 (0.6%) | 4/358 (1.1%) |
| Corneal edema (flap) at > 1 month | 0/355 (0.0%) | 0/339 (0.0%) | 1/333 (0.3%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 1/178 (0.6%) | 2/358 (0.6%) |
| Debris in interface | 1/355 (0.3%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Decrease in BSCVA of > 2 lines not due to irregular astigmatism | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 2/290 (0.7%) | 1/222 (0.5%) | 0/178 (0.0%) | 3/358 (0.8%) |
| Edema | 0/355 (0.0%) | 0/339 (0.0%) | 1/333 (0.3%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Epithelial ingrowth | 0/355 (0.0%) | 1/339 (0.3%) | 2/333 (0.6%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 3/358 (0.8%) |
| Folds in flap | 2/355 (0.6%) | 1/339 (0.3%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 3/358 (0.8%) |
| Heart attack | 0/355 (0.0%) | 0/339 (0.0%) | 1/333 (0.3%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 2/358 (0.6%) |
| Lamellar keratitis | 6/355 (1.7%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 6/358 (1.7%) |
| Mini-stroke | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 2/178 (1.1%) | 2/358 (0.6%) |
| Procedure aborted | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Secondary surgical intervention other than excimer laser treatment | 3/355 (0.8%) | 2/339 (0.6%) | 3/333 (0.9%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 7/358 (2.0%) |
| Not reported* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total† | 355 | 339 | 333 | 343 | 290 | 222 | 178 | 358 |

1 PROCEDURE ABORTED was reported at day of surgery. 1 LAMELLAR KERATITIS was reported at an interim visit between 1 day to 7 day postop.

1 ANTERIOR MEMBRANE DYSTROPHY was reported at an interim visit between 7 days to 1 month postop.

2 ANTERIOR MEMBRANE DYSTROPHY, & 1 HEART ATTACK were reported at an interim visit between 1 to 3 months postop.

N = Number of CRFs received with non-missing values at each visit.

* Number of CRFs received with missing values at each visit.

† Number of CRFs received at each visit.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 21
Complications Summary — All Treated Eyes

| All Reported Complications | 1 Day n/N (%) | 7 Day n/N (%) | 1 Month n/N (%) | 3 Months n/N (%) | 6 Months n/N (%) | 9 Months n/N (%) | ³ 12 Months n/N (%) | Cumulative n/N (%) |
|---|------------------|------------------|--------------------|---------------------|---------------------|---------------------|-----------------------------------|-----------------------|
| Allergies | 0/355 (0.0%) | 1/339 (0.3%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Bells palsy | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 1/222 (0.5%) | 1/178 (0.6%) | 1/358 (0.3%) |
| Blepharitis | 0/355 (0.0%) | 0/339 (0.0%) | 1/333 (0.3%) | 2/343 (0.6%) | 4/290 (1.4%) | 4/222 (1.8%) | 3/178 (1.7%) | 7/358 (2.0%) |
| Blurry vision | 0/355 (0.0%) | 0/339 (0.0%) | 1/333 (0.3%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Bowmans wrinkle | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 1/290 (0.3%) | 1/222 (0.5%) | 1/178 (0.6%) | 1/358 (0.3%) |
| Chalazion | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 1/222 (0.5%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Conjunctival injection | 0/355 (0.0%) | 0/339 (0.0%) | 1/333 (0.3%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Conjunctivitis | 0/355 (0.0%) | 1/339 (0.3%) | 2/333 (0.6%) | 2/343 (0.6%) | 4/290 (1.4%) | 2/222 (0.9%) | 4/178 (2.2%) | 8/358 (2.2%) |
| Corneal abrasion | 3/355 (0.8%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 3/358 (0.8%) |
| Corneal edema at ≤ 1 month | 0/355 (0.0%) | 20/339 (5.9%) | 4/333 (1.2%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 24/358 (6.7%) |
| Debris in interface | 29/355 (8.2%) | 26/339 (7.7%) | 26/333 (7.8%) | 18/343 (5.2%) | 9/290 (3.1%) | 9/222 (4.1%) | 8/178 (4.5%) | 54/358 (15.1%) |
| Double vision | 0/355 (0.0%) | 0/339 (0.0%) | 2/333 (0.6%) | 0/343 (0.0%) | 1/290 (0.3%) | 0/222 (0.0%) | 0/178 (0.0%) | 3/358 (0.8%) |
| Edema | 0/355 (0.0%) | 1/339 (0.3%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 1/222 (0.5%) | 0/178 (0.0%) | 3/358 (0.8%) |
| Epiretinal membrane | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 1/222 (0.5%) | 1/178 (0.6%) | 1/358 (0.3%) |
| Epithelial defect | 6/355 (1.7%) | 2/339 (0.6%) | 2/333 (0.6%) | 1/343 (0.3%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 8/358 (2.2%) |
| Epithelial ingrowth | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 3/343 (0.9%) | 2/290 (0.7%) | 1/222 (0.5%) | 1/178 (0.6%) | 5/358 (1.4%) |
| Epithelium in the interface | 1/355 (0.3%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Epithelium in the interface with loss ≤2 lines of BSCVA | 1/355 (0.3%) | 1/339 (0.3%) | 1/333 (0.3%) | 1/343 (0.3%) | 4/290 (1.4%) | 1/222 (0.5%) | 0/178 (0.0%) | 5/358 (1.4%) |
| Erosion | 1/355 (0.3%) | 1/339 (0.3%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Folds in flap | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 2/343 (0.6%) | 0/290 (0.0%) | 0/222 (0.0%) | 2/178 (1.1%) | 3/358 (0.8%) |
| Ghost images | 0/355 (0.0%) | 0/339 (0.0%) | 2/333 (0.6%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 2/358 (0.6%) |
| Guttata | 2/355 (0.6%) | 0/339 (0.0%) | 2/333 (0.6%) | 0/343 (0.0%) | 1/290 (0.3%) | 1/222 (0.5%) | 0/178 (0.0%) | 5/358 (1.4%) |
| Interface disruption | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 1/343 (0.3%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Itching | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 2/290 (0.7%) | 0/222 (0.0%) | 0/178 (0.0%) | 2/358 (0.6%) |
| Keratitis | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 1/290 (0.3%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Meibomitis | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 2/290 (0.7%) | 2/222 (0.9%) | 0/178 (0.0%) | 2/358 (0.6%) |
| Opacity, crystalline lens | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 5/290 (1.7%) | 2/222 (0.9%) | 5/178 (2.8%) | 10/358 (2.8%) |
| Pain > 7 days | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 1/290 (0.3%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Papillae | 0/355 (0.0%) | 0/339 (0.0%) | 3/333 (0.9%) | 2/343 (0.6%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 4/358 (1.1%) |
| Partial flap | 1/355 (0.3%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Not reported* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total† | 355 | 339 | 333 | 343 | 290 | 222 | 178 | 358 |

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 21
Complications Summary — All Treated Eyes (Continued)

| All Reported Complications | 1 Day n/N (%) | 7 Day n/N (%) | 1 Month n/N (%) | 3 Months n/N (%) | 6 Months n/N (%) | 9 Months n/N (%) | ³ 12 Months n/N (%) | Cumulative n/N (%) |
|--|------------------|------------------|--------------------|---------------------|---------------------|---------------------|-----------------------------------|-----------------------|
| Peripheral corneal epithelial defect (on the flap) | 6/355 (1.7%) | 0/339 (0.0%) | 1/333 (0.3%) | 0/343 (0.0%) | 1/290 (0.3%) | 0/222 (0.0%) | 0/178 (0.0%) | 8/358 (2.2%) |
| Posterior vitreous detachment | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 1/343 (0.3%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Pterygium | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 1/222 (0.5%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Punctal stenosis | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 2/222 (0.9%) | 0/178 (0.0%) | 2/358 (0.6%) |
| Redness | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 1/222 (0.5%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Sebaceous cyst | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 1/222 (0.5%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Subconjunctival hemorrhage | 1/355 (0.3%) | 1/339 (0.3%) | 1/333 (0.3%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 2/358 (0.6%) |
| Subepithelial opacity | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 1/290 (0.3%) | 0/222 (0.0%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Trichiasis | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 1/290 (0.3%) | 1/222 (0.5%) | 0/178 (0.0%) | 2/358 (0.6%) |
| Vitreous traction | 0/355 (0.0%) | 0/339 (0.0%) | 1/333 (0.3%) | 0/343 (0.0%) | 0/290 (0.0%) | 0/222 (0.0%) | 0/178 (0.0%) | 2/358 (0.6%) |
| Vitreous detachment | 0/355 (0.0%) | 0/339 (0.0%) | 0/333 (0.0%) | 0/343 (0.0%) | 0/290 (0.0%) | 1/222 (0.5%) | 0/178 (0.0%) | 1/358 (0.3%) |
| Not reported* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total† | 355 | 339 | 333 | 343 | 290 | 222 | 178 | 358 |

2 DEBRIS IN INTERFACE, 1 EDEMA, & 1 PERIPHERAL CORNEAL EPITHELIAL DEFECT (ON THE FLAP) were reported at an interim visit between 7 days to 1 month postop.

1 BLEPHARITIS, 1 EPITHELIAL INGROWTH, & 1 VITREAL TRACTION were reported at an interim visit between 1 to 3 months postop.

1 DEBRIS IN INTERFACE, & 1 EPITHELIAL INGROWTH were reported at an interim visit between 3 to 6 months postop. 1 DEBRIS IN INTERFACE was reported at an interim visit between 6 to 9 months postop.

N = Number of CRFs received with non-missing values at each visit.

* Number of CRFs received with missing values at each visit.

† Number of CRFs received at each visit.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 22
Patient Symptom Increases from Preoperative
All Treated Eyes

| Patient Symptom | 6 Months | | | 12 Months | | |
|--------------------------------------|----------|----------------|---------------------------------|-----------|----------------|---------------------------------|
| | N* | Worse % (n) | Significantly Worse % (n) | N* | Worse % (n) | Significantly Worse % (n) |
| Light Sensitivity | 264 | 18.6 % (49) | 7.2 % (19) | 167 | 12.0 % (20) | 3.6 % (6) |
| Headaches | 265 | 4.2 % (11) | 0.8 % (2) | 167 | 4.2 % (7) | 1.2 % (2) |
| Pain | 263 | 4.9 % (13) | 0.8 % (2) | 166 | 0.6 % (1) | 1.8 % (3) |
| Redness | 264 | 11.4 % (30) | 4.5 % (12) | 166 | 17.5 % (29) | 1.8 % (3) |
| Dryness | 266 | 32.7 % (87) | 11.3 % (30) | 166 | 7.2 % (12) | 1.2 % (2) |
| Excessive Tearing | 266 | 4.5 % (12) | 1.1 % (3) | 167 | 4.8 % (8) | 0.6 % (1) |
| Burning | 264 | 12.1 % (32) | 1.5 % (4) | 166 | 10.8 % (18) | 1.2 % (2) |
| Gritty Feeling | 265 | 15.5 % (41) | 5.3 % (14) | 167 | 12.0 % (20) | 2.4 % (4) |
| Glare | 265 | 24.2 % (64) | 4.5 % (12) | 167 | 18.6 % (31) | 1.2 % (2) |
| Halos | 265 | 13.6 % (36) | 7.5 % (20) | 167 | 10.8 % (18) | 3.0 % (5) |
| Blurry Vision | 263 | 20.2 % (53) | 10.3 % (27) | 166 | 20.5 % (34) | 6.0 % (10) |
| Double Vision | 264 | 9.8 % (26) | 4.9 % (13) | 166 | 11.4 % (19) | 1.8 % (3) |
| Ghost Images | 265 | 14.0 % (37) | 4.2 % (11) | 167 | 10.8 % (18) | 0.6 % (1) |
| Fluctuation of Vision | 265 | 32.5 % (86) | 9.8 % (26) | 167 | 29.9 % (50) | 6.6 % (11) |
| Variations of Vision in Bright Light | 264 | 17.4 % (46) | 6.1 % (16) | 167 | 13.2 % (22) | 5.4 % (9) |
| Variations of Vision in Normal Light | 265 | 20.8 % (55) | 5.7 % (15) | 167 | 19.2 % (32) | 4.8 % (8) |
| Variations of Vision in Dim Light | 265 | 22.3 % (59) | 14.3 % (38) | 167 | 20.4 % (34) | 11.4 % (19) |
| Difficulties with Night Driving | 265 | 12.1 % (32) | 6.4 % (17) | 167 | 16.2 % (27) | 1.2 % (2) |

* Number of CRFs received with non-missing values at both the preoperative visit and the indicated follow-up visit.

e. Patient Symptoms

The rate of symptoms reported as none, mild, and moderate to severe preoperatively and at 6 months are reported in Table 23. A statistical comparison of the rates of clinically significant symptoms (moderate to severe) at the preoperative versus the 6 month visit demonstrated that 6 months after treatment patients had significantly lower occurrences of headaches (3.0% vs. 14.3%, $p < 0.0001$), excessive tearing (2.6% vs. 7.5%, $p < 0.00029$) and difficulties with night driving (11.3% vs. 20.8%, $p < 0.003$). The occurrence rate for the symptoms dryness (22.6% vs. 10.5%, $p < 0.0001$), gritty feeling (6.8% vs. 2.6%), fluctuation of vision (14.7% vs. 5.7%, p -value = 0.0005), and variations of vision in dim light (18.1% vs. 27.9%, $p < 0.0032$) were higher at the 6 month visit than at the preoperative visit.

Changes in patient symptoms from preoperative to 1 month, 6 months and ≥ 12 months are presented in Tables 24 through 26. The proportion of eyes that rated each symptom better at 6 months than at baseline versus the proportion of eyes that rated each symptom worse at 6 months than at baseline were compared statistically. This analysis showed that the proportion of eyes that improved was significantly greater than the proportion of eyes that got worse for the symptoms headaches ($p < 0.0001$), excessive tearing ($p < 0.0001$), and difficulties with night driving ($p < 0.0001$). The analysis also demonstrated that the proportion of eyes with symptoms rated as worse was significantly greater than the proportion of eyes that had the symptom rated better for dryness ($p < 0.0001$), gritty feeling ($p < 0.0024$), double vision ($p < 0.0135$), ghost images ($p < 0.0005$), fluctuations of vision ($p < 0.0001$), variations of vision in normal light ($p < 0.0001$) and variations of vision in dim light ($p < 0.0002$).

Treatment of higher amounts of hyperopia resulted in a lower rate of accuracy in the refractive outcome (see Section IX.F.2.c). An analysis of the impact of treatment accuracy on symptoms showed that the rate of “worse” and “significantly worse” symptoms increased as the magnitude of the treatment inaccuracy increased as seen in Table 27. The effect reached statistical significance ($p < 0.05$) for headaches and for variation of vision in bright and dim light.

Induced astigmatism was associated with spherical treatments and the efficacy of spherical treatments was reduced relative to astigmatic treatments for eyes with low amounts of astigmatism (see Section IX.F.2.c). The symptom data for spherical versus astigmatic treatments, shown in Table 28, do not follow these same trends.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 23
Patient Symptoms at Preop & 6 Months
All Treated Eyes

| Patient Symptoms | None % (n/N) | | Mild % (n/N) | | Moderate to Severe % (n/N) | |
|-------------------------------------|-----------------|-----------------|-----------------|-----------------|-------------------------------|----------------|
| | Preop. | 6 Months | Preop. | 6 Months | Preop. | 6 Months |
| Light sensitivity | 47.7% (167/350) | 44.2% (121/274) | 29.1% (102/350) | 36.1% (99/274) | 23.1% (81/350) | 19.7% (54/274) |
| Headaches | 68.6% (240/350) | 84.7% (232/274) | 19.7% (69/350) | 12.4% (34/274) | 11.7% (41/350) | 2.9% (8/274) |
| Pain | 89.4% (313/350) | 92.0% (252/274) | 8.3% (29/350) | 6.9% (19/274) | 2.3% (8/350) | 1.1% (3/274) |
| Redness | 75.4% (264/350) | 71.9% (197/274) | 18.6% (65/350) | 20.4% (56/274) | 6.0% (21/350) | 7.7% (21/274) |
| Dryness | 60.6% (212/350) | 34.3% (94/274) | 29.4% (103/350) | 43.8% (120/274) | 10.0% (35/350) | 21.9% (60/274) |
| Tearing | 76.3% (267/350) | 88.3% (242/274) | 16.3% (57/350) | 9.1% (25/274) | 7.4% (26/350) | 2.6% (7/274) |
| Burning | 77.1% (270/350) | 77.0% (211/274) | 19.4% (68/350) | 20.8% (57/274) | 3.4% (12/350) | 2.2% (6/274) |
| Gritty feeling | 77.4% (271/350) | 67.9% (186/274) | 19.7% (69/350) | 25.5% (70/274) | 2.9% (10/350) | 6.6% (18/274) |
| Glare | 59.1% (207/350) | 49.6% (136/274) | 28.9% (101/350) | 37.6% (103/274) | 12.0% (42/350) | 12.8% (35/274) |
| Halos | 82.0% (287/350) | 73.7% (202/274) | 11.1% (39/350) | 16.4% (45/274) | 6.9% (24/350) | 9.9% (27/274) |
| Blurred vision | 57.1% (200/350) | 43.8% (120/274) | 21.4% (75/350) | 37.6% (103/274) | 21.4% (75/350) | 18.6% (51/274) |
| Double vision | 91.7% (321/350) | 82.5% (226/274) | 5.1% (18/350) | 12.0% (33/274) | 3.1% (11/350) | 5.5% (15/274) |
| Ghost images | 92.3% (323/350) | 78.8% (216/274) | 4.9% (17/350) | 16.8% (46/274) | 2.9% (10/350) | 4.4% (12/274) |
| Fluctuations of vision | 70.0% (245/350) | 38.3% (105/274) | 24.3% (85/350) | 47.1% (129/274) | 5.7% (20/350) | 14.6% (40/274) |
| Variation of vision in bright light | 58.3% (204/350) | 57.7% (158/274) | 30.0% (105/350) | 32.5% (89/274) | 11.7% (41/350) | 9.9% (27/274) |
| Variation of vision in normal light | 78.9% (276/350) | 63.5% (174/274) | 16.0% (56/350) | 29.2% (80/274) | 5.1% (18/350) | 7.3% (20/274) |
| Variation of vision in dim light | 51.4% (180/350) | 35.8% (98/274) | 30.3% (106/350) | 36.5% (100/274) | 18.3% (64/350) | 27.7% (76/274) |
| Night driving vision | 43.4% (152/350) | 59.5% (163/274) | 38.0% (133/350) | 29.6% (81/274) | 18.6% (65/350) | 10.9% (30/274) |

N = Number of Self-evaluation Forms received with non-missing values at each visit.

At 6 months, the symptoms graded as moderate or worse that were reported at an incidence level of more than 1% higher than the baseline incidence level were redness, dryness, gritty feeling, halos, double vision, ghost images, fluctuations of vision, variation of vision in normal light, and variation of vision in dim light.

15 'other' symptoms were reported preoperative and 8 'other' symptoms were reported at 6 Months

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 24
Patient Symptom Changes from Preoperative to 1 Month
All Treated Eyes

| Patient Symptom | N* | Significantly Better % (n) | Better % (n) | No Change % (n) | Worse % (n) | Significantly Worse % (n) |
|--------------------------------------|-----|-------------------------------|-----------------|--------------------|----------------|------------------------------|
| Light Sensitivity | 304 | 4.6 % (14) | 16.1 % (49) | 43.1 % (131) | 27.0 % (82) | 9.2 % (28) |
| Headaches | 305 | 4.3 % (13) | 18.0 % (55) | 66.9 % (204) | 8.5 % (26) | 2.3 % (7) |
| Pain | 303 | 1.0 % (3) | 5.6 % (17) | 83.2 % (252) | 9.9 % (30) | 0.3 % (1) |
| Redness | 304 | 2.3 % (7) | 10.9 % (33) | 64.1 % (195) | 18.8 % (57) | 3.9 % (12) |
| Dryness | 304 | 0.7 % (2) | 6.6 % (20) | 38.5 % (117) | 39.1 % (119) | 15.1 % (46) |
| Excessive Tearing | 305 | 3.6 % (11) | 15.1 % (46) | 76.4 % (233) | 4.6 % (14) | 0.3 % (1) |
| Burning | 303 | 1.3 % (4) | 12.2 % (37) | 71.0 % (215) | 13.2 % (40) | 2.3 % (7) |
| Gritty Feeling | 304 | 0.7 % (2) | 8.2 % (25) | 67.4 % (205) | 22.7 % (69) | 1.0 % (3) |
| Glare | 304 | 3.3 % (10) | 11.2 % (34) | 50.0 % (152) | 25.7 % (78) | 9.9 % (30) |
| Halos | 304 | 2.6 % (8) | 7.2 % (22) | 58.6 % (178) | 21.4 % (65) | 10.2 % (31) |
| Blurry Vision | 301 | 10.3 % (31) | 11.0 % (33) | 36.9 % (111) | 26.2 % (79) | 15.6 % (47) |
| Double Vision | 303 | 1.7 % (5) | 4.3 % (13) | 75.6 % (229) | 12.2 % (37) | 6.3 % (19) |
| Ghost Images | 303 | 1.3 % (4) | 2.3 % (7) | 74.9 % (227) | 15.8 % (48) | 5.6 % (17) |
| Fluctuation of Vision | 304 | 0.3 % (1) | 4.3 % (13) | 39.8 % (121) | 36.5 % (111) | 19.1 % (58) |
| Variations of Vision in Bright Light | 303 | 3.3 % (10) | 14.2 % (43) | 49.5 % (150) | 24.1 % (73) | 8.9 % (27) |
| Variations of Vision in Normal Light | 301 | 1.7 % (5) | 7.0 % (21) | 62.1 % (187) | 21.6 % (65) | 7.6 % (23) |
| Variations of Vision in Dim Light | 304 | 6.9 % (21) | 11.2 % (34) | 42.1 % (128) | 27.0 % (82) | 12.8 % (39) |
| Difficulties with Night Driving | 297 | 9.4 % (28) | 21.5 % (64) | 44.8 % (133) | 13.5 % (40) | 10.8 % (32) |

* Number of CRFs received with non-missing values at both the preoperative visit and the indicated follow-up visit.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 25
Patient Symptom Changes from Preoperative to 6 Month
All Treated Eyes

| Patient Symptom | N* | Significantly Better % (n) | Better % (n) | No Change % (n) | Worse % (n) | Significantly Worse % (n) |
|--------------------------------------|-----|-------------------------------|-----------------|--------------------|----------------|------------------------------|
| Light Sensitivity | 264 | 8.0 % (21) | 21.2 % (56) | 45.1 % (119) | 18.6 % (49) | 7.2 % (19) |
| Headaches | 265 | 7.9 % (21) | 21.1 % (56) | 66.0 % (175) | 4.2 % (11) | 0.8 % (2) |
| Pain | 263 | 1.5 % (4) | 7.6 % (20) | 85.2 % (224) | 4.9 % (13) | 0.8 % (2) |
| Redness | 264 | 3.4 % (9) | 10.2 % (27) | 70.5 % (186) | 11.4 % (30) | 4.5 % (12) |
| Dryness | 266 | 2.3 % (6) | 7.5 % (20) | 46.2 % (123) | 32.7 % (87) | 11.3 % (30) |
| Excessive Tearing | 266 | 3.8 % (10) | 14.3 % (38) | 76.3 % (203) | 4.5 % (12) | 1.1 % (3) |
| Burning | 264 | 1.9 % (5) | 12.5 % (33) | 72.0 % (190) | 12.1 % (32) | 1.5 % (4) |
| Gritty Feeling | 265 | 1.5 % (4) | 9.8 % (26) | 67.9 % (180) | 15.5 % (41) | 5.3 % (14) |
| Glare | 265 | 5.3 % (14) | 18.9 % (50) | 47.2 % (125) | 24.2 % (64) | 4.5 % (12) |
| Halos | 265 | 4.9 % (13) | 10.6 % (28) | 63.4 % (168) | 13.6 % (36) | 7.5 % (20) |
| Blurry Vision | 263 | 10.3 % (27) | 16.3 % (43) | 43.0 % (113) | 20.2 % (53) | 10.3 % (27) |
| Double Vision | 264 | 2.3 % (6) | 4.9 % (13) | 78.0 % (206) | 9.8 % (26) | 4.9 % (13) |
| Ghost Images | 265 | 1.9 % (5) | 4.5 % (12) | 75.5 % (200) | 14.0 % (37) | 4.2 % (11) |
| Fluctuation of Vision | 265 | 1.9 % (5) | 7.5 % (20) | 48.3 % (128) | 32.5 % (86) | 9.8 % (26) |
| Variations of Vision in Bright Light | 264 | 6.4 % (17) | 19.7 % (52) | 50.4 % (133) | 17.4 % (46) | 6.1 % (16) |
| Variations of Vision in Normal Light | 265 | 1.5 % (4) | 10.6 % (28) | 61.5 % (163) | 20.8 % (55) | 5.7 % (15) |
| Variations of Vision in Dim Light | 265 | 6.0 % (16) | 14.3 % (38) | 43.0 % (114) | 22.3 % (59) | 14.3 % (38) |
| Difficulties with Night Driving | 265 | 14.3 % (38) | 24.5 % (65) | 42.6 % (113) | 12.1 % (32) | 6.4 % (17) |

* Number of CRFs received with non-missing values at both the preoperative visit and the indicated follow-up visit.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 26
Patient Symptom Changes from Preoperative to ³ 12 Months
All Treated Eyes

| Patient Symptom | N* | Significantly | Better % (n) | No Change % (n) | Worse % (n) | Significantly |
|--------------------------------------|-----|-----------------|-----------------|--------------------|----------------|----------------|
| | | Better % (n) | | | | Worse % (n) |
| Light Sensitivity | 167 | 19.8 % (33) | 21.6 % (36) | 43.1 % (72) | 12.0 % (20) | 3.6 % (6) |
| Headaches | 167 | 19.2 % (32) | 20.4 % (34) | 55.1 % (92) | 4.2 % (7) | 1.2 % (2) |
| Pain | 166 | 11.4 % (19) | 7.2 % (12) | 78.9 % (131) | 0.6 % (1) | 1.8 % (3) |
| Redness | 166 | 13.9 % (23) | 16.3 % (27) | 50.6 % (84) | 17.5 % (29) | 1.8 % (3) |
| Dryness | 166 | 19.3 % (32) | 21.1 % (35) | 51.2 % (85) | 7.2 % (12) | 1.2 % (2) |
| Excessive Tearing | 167 | 15.0 % (25) | 13.2 % (22) | 66.5 % (111) | 4.8 % (8) | 0.6 % (1) |
| Burning | 166 | 13.3 % (22) | 11.4 % (19) | 63.3 % (105) | 10.8 % (18) | 1.2 % (2) |
| Gritty Feeling | 167 | 12.0 % (20) | 8.4 % (14) | 65.3 % (109) | 12.0 % (20) | 2.4 % (4) |
| Glare | 167 | 16.8 % (28) | 18.6 % (31) | 44.9 % (75) | 18.6 % (31) | 1.2 % (2) |
| Halos | 167 | 13.2 % (22) | 10.8 % (18) | 62.3 % (104) | 10.8 % (18) | 3.0 % (5) |
| Blurry Vision | 166 | 20.5 % (34) | 16.9 % (28) | 36.1 % (60) | 20.5 % (34) | 6.0 % (10) |
| Double Vision | 166 | 12.7 % (21) | 6.6 % (11) | 67.5 % (112) | 11.4 % (19) | 1.8 % (3) |
| Ghost Images | 167 | 12.0 % (20) | 4.2 % (7) | 72.5 % (121) | 10.8 % (18) | 0.6 % (1) |
| Fluctuation of Vision | 167 | 11.4 % (19) | 7.2 % (12) | 44.9 % (75) | 29.9 % (50) | 6.6 % (11) |
| Variations of Vision in Bright Light | 167 | 15.0 % (25) | 22.2 % (37) | 44.3 % (74) | 13.2 % (22) | 5.4 % (9) |
| Variations of Vision in Normal Light | 167 | 13.8 % (23) | 7.8 % (13) | 54.5 % (91) | 19.2 % (32) | 4.8 % (8) |
| Variations of Vision in Dim Light | 167 | 20.4 % (34) | 10.8 % (18) | 37.1 % (62) | 20.4 % (34) | 11.4 % (19) |
| Difficulties with Night Driving | 167 | 19.8 % (33) | 25.1 % (42) | 37.7 % (63) | 16.2 % (27) | 1.2 % (2) |

* Number of CRFs received with non-missing values at both the preoperative visit and the indicated follow-up visit.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 27
Impact of Treatment Accuracy
On Patient Symptom Changes from Preoperative to 6 Months

| Patient Symptom | Level of Outcome Accuracy | | | | | | | | | | | |
|--------------------------------------|---------------------------|-------------------------|-----------|-------------------------|-----------------------------|-------------------------|-----------|-------------------------|-----------------------|-------------------------|-----------|-------------------------|
| | Postop MRSE ≤ 0.50D | | | | Postop MRSE 0.51 to 1.00D | | | | Postop MRSE > 1.00D | | | |
| | N* | Unchanged or Better (%) | Worse (%) | Significantly Worse (%) | N* | Unchanged or Better (%) | Worse (%) | Significantly Worse (%) | N* | Unchanged or Better (%) | Worse (%) | Significantly Worse (%) |
| Light Sensitivity | 141 | 74.5 | 20.6 | 5.0 | 47 | 76.6 | 14.9 | 8.5 | 21 | 71.4 | 19.0 | 9.5 |
| Headaches | 142 | 97.9 | 2.1 | 0.0 | 47 | 89.4 | 8.5 | 2.1 | 21 | 81.0 | 14.3 | 4.8 |
| Pain | 142 | 94.4 | 4.9 | 0.7 | 46 | 95.7 | 4.3 | 0.0 | 20 | 100.0 | 0.0 | 0.0 |
| Redness | 143 | 82.5 | 13.3 | 4.2 | 45 | 86.7 | 8.9 | 4.4 | 21 | 90.5 | 9.5 | 0.0 |
| Dryness | 143 | 56.6 | 35.7 | 7.7 | 47 | 57.4 | 31.9 | 10.6 | 21 | 42.9 | 38.1 | 19.0 |
| Excessive Tearing | 143 | 93.7 | 6.3 | 0.0 | 47 | 95.7 | 2.1 | 2.1 | 21 | 90.5 | 0.0 | 9.5 |
| Burning | 142 | 83.8 | 14.8 | 1.4 | 47 | 93.6 | 6.4 | 0.0 | 21 | 85.7 | 14.3 | 0.0 |
| Gritty Feeling | 142 | 83.1 | 12.7 | 4.2 | 47 | 74.5 | 19.1 | 6.4 | 21 | 76.2 | 9.5 | 14.3 |
| Glare | 142 | 71.8 | 24.6 | 3.5 | 47 | 76.6 | 19.1 | 4.3 | 21 | 57.1 | 38.1 | 4.8 |
| Halos | 142 | 77.5 | 15.5 | 7.0 | 47 | 87.2 | 8.5 | 4.3 | 21 | 66.7 | 19.0 | 14.3 |
| Blurry Vision | 142 | 72.5 | 16.9 | 10.6 | 45 | 62.2 | 31.1 | 6.7 | 21 | 61.9 | 19.0 | 19.0 |
| Double Vision | 142 | 83.1 | 11.3 | 5.6 | 46 | 91.3 | 2.2 | 6.5 | 21 | 81.0 | 19.0 | 0.0 |
| Ghost Images | 142 | 82.4 | 13.4 | 4.2 | 47 | 80.9 | 12.8 | 6.4 | 21 | 76.2 | 23.8 | 0.0 |
| Fluctuation of Vision | 142 | 61.3 | 28.9 | 9.9 | 47 | 57.4 | 36.2 | 6.4 | 21 | 42.9 | 52.4 | 4.8 |
| Variations of Vision in Bright Light | 141 | 78.7 | 16.3 | 5.0 | 47 | 74.5 | 17.0 | 8.5 | 21 | 57.1 | 28.6 | 14.3 |
| Variations of Vision in Normal Light | 142 | 74.6 | 21.8 | 3.5 | 47 | 76.6 | 21.3 | 2.1 | 21 | 71.4 | 14.3 | 14.3 |
| Variations of Vision in Dim Light | 142 | 70.4 | 21.1 | 8.5 | 47 | 59.6 | 25.5 | 14.9 | 21 | 33.3 | 33.3 | 33.3 |
| Difficulties with Night Driving | 142 | 83.8 | 11.3 | 4.9 | 47 | 83.0 | 12.8 | 4.3 | 21 | 66.7 | 19.0 | 14.3 |

* Number of CRFs received with non-missing values at both the preoperative visit and the indicated follow-up visit.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 28
Impact of Treatment Type (Astigmatic vs. Spherical)
On Patient Symptom Changes from Pre operative to 6 Months

| Patient Symptom | Astigmatic Treatments | | | | Spherical Treatments | | | |
|--------------------------------------|-----------------------|-------------------------|-----------|-------------------------|----------------------|-------------------------|-----------|-------------------------|
| | N* | Unchanged or Better (%) | Worse (%) | Significantly Worse (%) | N* | Unchanged or Better (%) | Worse (%) | Significantly Worse (%) |
| Light Sensitivity | 110 | 66.3 | 25.5 | 8.2 | 154 | 79.9 | 13.6 | 6.5 |
| Headaches | 110 | 97.3 | 2.7 | 0.0 | 155 | 93.5 | 5.2 | 1.3 |
| Pain | 109 | 92.7 | 6.4 | 0.9 | 154 | 95.5 | 3.9 | 0.6 |
| Redness | 109 | 83.5 | 11.9 | 4.6 | 155 | 84.5 | 11.0 | 4.5 |
| Dryness | 110 | 47.2 | 37.3 | 15.5 | 156 | 62.2 | 29.5 | 8.3 |
| Excessive Tearing | 110 | 95.5 | 4.5 | 0.0 | 156 | 93.6 | 4.5 | 1.9 |
| Burning | 108 | 86.1 | 13.0 | 0.9 | 156 | 86.6 | 11.5 | 1.9 |
| Gritty Feeling | 109 | 66.9 | 23.9 | 9.2 | 156 | 87.8 | 9.6 | 2.6 |
| Glare | 109 | 66.9 | 23.9 | 9.2 | 156 | 74.3 | 24.4 | 1.3 |
| Halos | 109 | 77.1 | 15.6 | 7.3 | 156 | 80.1 | 12.2 | 7.7 |
| Blurry Vision | 108 | 64.8 | 22.2 | 13.0 | 155 | 72.9 | 18.7 | 8.4 |
| Double Vision | 109 | 89.0 | 6.4 | 4.6 | 155 | 82.5 | 12.3 | 5.2 |
| Ghost Images | 109 | 80.8 | 12.8 | 6.4 | 156 | 82.7 | 14.7 | 2.6 |
| Fluctuation of Vision | 109 | 54.1 | 34.9 | 11.0 | 156 | 60.2 | 30.8 | 9.0 |
| Variations of Vision in Bright Light | 109 | 74.3 | 15.6 | 10.1 | 155 | 78.1 | 18.7 | 3.2 |
| Variations of Vision in Normal Light | 109 | 67.0 | 25.7 | 7.3 | 156 | 78.2 | 17.3 | 4.5 |
| Variations of Vision in Dim Light | 109 | 53.2 | 27.5 | 19.3 | 156 | 70.5 | 18.6 | 10.9 |
| Difficulties with Night Driving | 109 | 76.2 | 16.5 | 7.3 | 156 | 85.2 | 9.0 | 5.8 |

* Number of CRFs received with non-missing values at both the preoperative visit and the indicated follow-up visit.

f. Retreatment

Eighteen (18) eyes were discontinued following their 6 month visits due to retreatment with other than the TECHNOLAS 217A laser. The retreatments ranged from low hyperopia (due to undercorrection) to low myopia (due to overcorrection). In the absence of data from the clinical trial, no recommendations can be made regarding the safety and effectiveness of LASIK retreatment, however, caution should be taken to assure refractive stability before performing additional procedures.

g. Factors Associated with Outcomes

The primary effectiveness outcomes (UCVA 20/40 or better, MRSE deviation from attempted correction within ± 0.50 D and ± 1.00 D) were analysed by baseline characteristics (surgical eye, age, gender, preoperative MRSE, and preoperative MRCYL), and study site. These analyses show the following:

- 1) For UCVA of 20/40 or better at 3 and 6 months postoperative, there are no significant differences between the primary (first) eye and the fellow eye results.
- 2) The success rates are consistent among the different age groups with the exception of the 30 to <40 age group whose success rate of MRSE deviation from attempted correction with ± 1.00 D was lower at 6 months.
- 3) The success rates are consistent between males and females.
- 4) The success rates are consistent between sites with one exception of the primary effectiveness variables. At 3 months, one site had a relatively lower success rate of MRSE deviation from attempted correction within ± 0.50 D for treated primary eyes compared to rates at other sites.
- 5) The success rates of UCVA 20/40 or better are consistent among the different preoperative spherical equivalent groups. For the success rates of MRSE deviation from attempted correction within ± 0.50 D and ± 1.00 D, there are significant differences which suggest the effectiveness of the treatment diminishes at the high end of the treatment range. Accuracy within ± 0.50 D decreases from 83% to 47% in the spherical treatment group at the extremes of the attempted corrections.
- 6) The success rates are consistent among the different preoperative manifest cylinder groups with the exception of the 6-month outcome of UCVA 20/40 or better, eyes with a preoperative manifest cylinder of 2.00D to 2.99D. This group had a relatively lower success rate than the other groups.
- 7) Accuracy of refractive outcomes and the proportion of eyes that achieve UCVA 20/20 decrease with increasing preoperative manifest refractive cylinder and with MRSE.

h. Patient Satisfaction

Responses provided by the study subjects at 3 and 6 months to three questions regarding their experiences with the laser surgery are provided in Table 29. These three questions related to: 1) the perceived overall quality of vision following surgery; 2) the subject's willingness to have the surgery again if he/she could make the choice over; and 3) the subject's overall satisfaction with the results of the surgical procedure.

Over 98% of patients (by eye) indicated that there was improvement in the quality of vision after excimer laser. Less than 3% of patients indicated that they were dissatisfied with the results of their excimer laser treatment.

SUMMARY OF SAFETY AND EFFECTIVENESS DATA

Table 29
Self-Evaluation at 3 and 6 Months
Overall Quality of Vision, Choose Again, & Satisfaction
All Treated Eyes

| Slef-Evaluation Questions | Response | Overall % (n/N) | Spherical Hyperopia % (n/N) | Astigmatic Hyperopia % (n/N) |
|--|----------------------|--------------------|-----------------------------------|------------------------------------|
| 3 Months | | | | |
| Overall Quality of Vision after Excimer Laser | No Improvement | 1.2% (4/331) | 1.1% (2/184) | 1.4% (2/147) |
| | Slight Improvement | 3.6% (12/331) | 3.3% (6/184) | 4.1% (6/147) |
| | Moderate Improvement | 9.4% (31/331) | 10.3% (19/184) | 8.2% (12/147) |
| | Marked Improvement | 32.3% (107/331) | 28.8% (53/184) | 36.7% (54/147) |
| | Extreme Improvement | 53.5% (177/331) | 56.5% (104/184) | 49.7% (73/147) |
| | Not reported* | 6 | 6 | 0 |
| Total† | 337 | 190 | 147 | |
| Choose Excimer Again? | No | 2.1% (7/332) | 1.6% (3/187) | 2.8% (4/145) |
| | Unsure | 6.6% (22/332) | 6.4% (12/187) | 6.9% (10/145) |
| | Yes | 91.3% (303/332) | 92.0% (172/187) | 90.3% (131/145) |
| | Not reported* | 5 | 3 | 2 |
| | Total† | 337 | 190 | 147 |
| How Satisfied with the Excimer Laser Results? | Very Satisfied | 70.8% (233/329) | 71.7% (132/184) | 69.7% (101/145) |
| | Moderately Satisfied | 21.6% (71/329) | 22.3% (41/184) | 20.7% (30/145) |
| | Neutral | 5.5% (18/329) | 4.9% (9/184) | 6.2% (9/145) |
| | Dissatisfied | 2.1% (7/329) | 1.1% (2/184) | 3.4% (5/145) |
| | Very Dissatisfied | 0.0% (0/329) | 0.0% (0/184) | 0.0% (0/145) |
| | Not reported* | 8 | 6 | 2 |
| Total† | 337 | 190 | 147 | |
| 6 Months | | | | |
| Overall Quality of Vision after Excimer Laser | No Improvement | 1.1% (3/269) | 0.6% (1/157) | 1.8% (2/112) |
| | Slight Improvement | 4.5% (12/269) | 3.2% (5/157) | 6.3% (7/112) |
| | Moderate Improvement | 10.0% (27/269) | 10.2% (16/157) | 9.8% (11/112) |
| | Marked Improvement | 34.2% (92/269) | 33.1% (52/157) | 35.7% (40/112) |
| | Extreme Improvement | 50.2% (135/269) | 52.9% (83/157) | 46.4% (52/112) |
| | Not reported* | 5 | 5 | 0 |
| Total† | 274 | 162 | 112 | |
| Choose Excimer Again? | No | 1.9% (5/263) | 0.6% (1/154) | 3.7% (4/109) |
| | Unsure | 8.7% (23/263) | 7.8% (12/154) | 10.1% (11/109) |
| | Yes | 89.4% (235/263) | 91.6% (141/154) | 86.2% (94/109) |
| | Not reported* | 11 | 8 | 3 |
| | Total† | 274 | 162 | 112 |
| How Satisfied with the Excimer Laser Results? | Very Satisfied | 71.7% (190/265) | 76.8% (119/155) | 64.5% (71/110) |
| | Moderately Satisfied | 20.8% (55/265) | 18.7% (29/155) | 23.6% (26/110) |
| | Neutral | 4.9% (13/265) | 3.2% (5/155) | 7.3% (8/110) |
| | Dissatisfied | 2.3% (6/265) | 1.3% (2/155) | 3.6% (4/110) |
| | Very Dissatisfied | 0.4% (1/265) | 0.0% (0/155) | 0.9% (1/110) |
| | Not reported* | 9 | 7 | 2 |
| Total† | 274 | 162 | 112 | |

N = Number of CRFs received with non-missing values at each visit.

* Number of CRFs received with missing values at each visit.

† Number of CRFs received at each visit.

i. Device Failures and Replacements

There were a total of 4 cases out of 358 procedures with problems during surgery. Of these, 3 were epithelial defects and one was due to an aborted LASIK procedure secondary to a loss of suction before the microkeratome pass.

X. CONCLUSIONS DRAWN FROM THE STUDIES

The data in this application provides reasonable assurance that the device is safe and effective when used in accordance with the directions for use.

XI. PANEL RECOMMENDATION

In accordance with the provisions of section 515(c)(2) of the act as amended by the Safe Medical Devices Act of 1990, this PMA was not referred to the Ophthalmic Device Panel, and FDA advisory committee, for review and recommendation because the information in the PMA substantially duplicates information previously reviewed by this panel.

XII. CDRH DECISION

CDRH issued an approval order on February 25, 2003. The applicant's manufacturing facility was inspected on February 11-14, 2002 and was found to be in compliance with the medical device Quality System Regulation.

XIII. APPROVAL SPECIFICATIONS

Directions for Use: See Device Labeling.

Hazards to health from use of the device: See Indications, Contraindications, Warnings, Precautions and Adverse Events in the labeling.

Post-approval requirements and restrictions: See Approval Order