

Short Title

ClarVista CP-00004

Long Title

**A PROSPECTIVE, MULTI-CENTER STUDY TO EVALUATE THE
SAFETY AND PERFORMANCE OF THE
EXCHANGEABLE CLARVISTA HARMONI™ MODULAR TORIC
INTRAOCULAR LENS SYSTEM FOR THE
TREATMENT OF PRE-EXISTING CORNEAL ASTIGMATISM AND
APHAKIA FOLLOWING CATARACT**

1 TITLE PAGE

Protocol Number: ClarVista CP-00004 / NCT03050697

Medical Specialty: Surgical

Project Name /Number: NA

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Test Article(s) / Product(s): ClarVista HARMONI® Modular Toric Intraocular Lens System



A PROSPECTIVE, MULTI CENTER STUDY TO EVALUATE THE SAFETY AND PERFORMANCE OF THE EXCHANGEABLE CLARVISTA HARMONI™ MODULAR TORIC INTRAOCULAR LENS SYSTEM FOR THE TREATMENT OF PRE EXISTING CORNEAL ASTIGMATISM AND APHAKIA FOLLOWING CATARACT SURGERY

Protocol Number

#CP-00004 REV.01

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Original Version Date (Rev.01)

06 June 2016

This clinical investigation is being conducted in accordance with 21 CFR Parts 11, 50, 54, 56, and 812, SO 14155 (2011) Clinical Investigation of Medical Devices for Human Subjects, SO 11979 7:2014 Ophthalmic Implants — Intraocular Lenses — Part 7, : Clinical Investigations (where applicable), ANSI Z80.7-2013 Ophthalmic Optics — Intraocular Lenses (where applicable), CH GCPs, and applicable local regulations

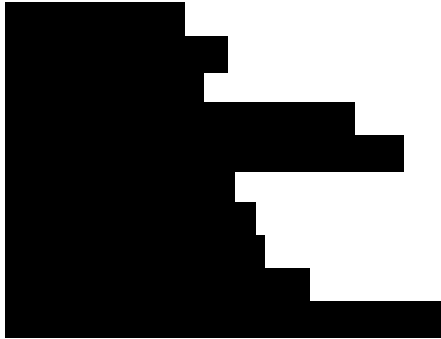
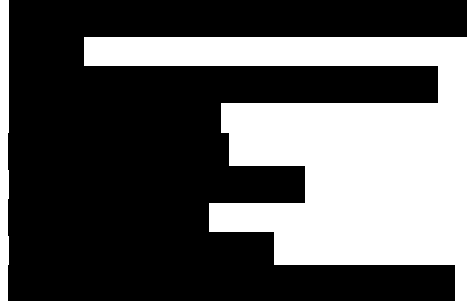
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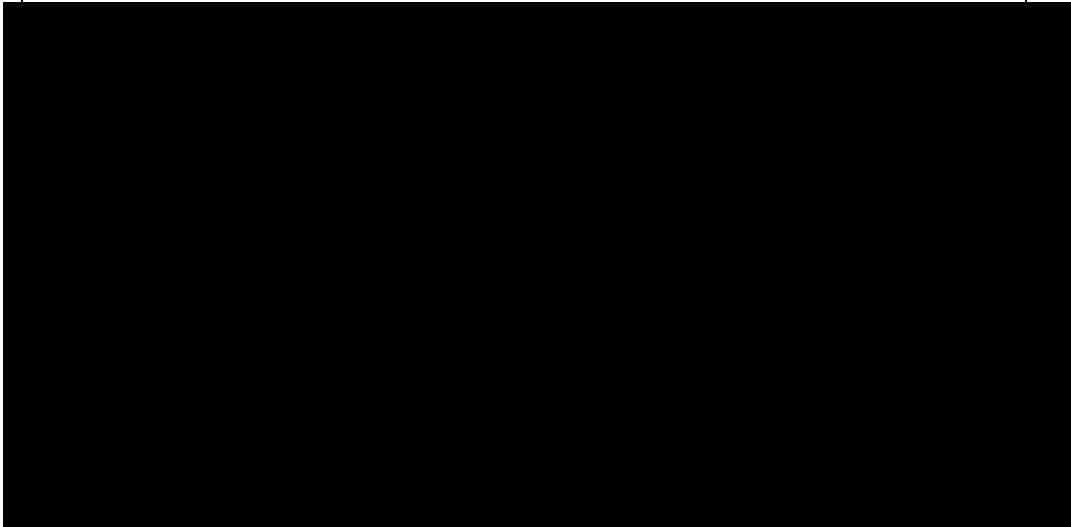


PROTOCOL APPROVAL

A Prospective, Multi-Center Study to Evaluate the Safety and Performance of the ClarVista HARMONI® Modular Toric Intraocular Lens System for the Treatment of Pre-Existing Corneal Astigmatism and Aphakia Following Cataract Surgery

The following individuals approve Protocol #CP-00004 Rev.01 dated 6 June 2016. Any changes to this version of the protocol must have an amendment or administrative letter.

ClarVista Approvals:



STUDY ACKNOWLEDGEMENT

I understand th s protoco conta ns nformat on that s conf dent a and propr etary to C arV sta Med ca (C arV sta).

I have read th s protoco and agree that t conta ns a the deta s necessary to conduct the study as descr bed. I w fo ow th s protoco n the conduct of the study and w make a reasonab e effort to comp ete the study n the t me noted.

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Pr nted Name of Pr nc pa Invest gator

Invest gator S gnature

Date

Protoco # CP-00004 Rev.01
Date: 06 June 2016

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LIST OF ABBREVIATIONS

Abbreviation/Acronym	Term
AE	Adverse Event
ACD	Anterior Chamber Depth
ADE	Adverse Device Effect
AL	Axial Length
ANSI	American National Standards Institute
BCDVA	Best-Corrected Distance Visual Acuity
CFR	Code of Federal Regulations
D	Diopter
DD	Device Definitions
DFE	Dilated Fundus Examination
EC	Ethics Committee
eCRF	Electronic Case Report Form
ETDRS	Early Treatment Diabetic Retinopathy Study (Chart)
EtO	Ethylene Oxide
FDA	United States Food and Drug Administration
GCPs	Good Clinical Practices
HIPAA	Health Insurance Portability and Accountability Act
HMTIOL	HARMONI™ Modular Toric Intraocular Lens System
IB	Investigator Brochure
ICF	Informed Consent Form
ICH	International Conference on Harmonization
ID	Identification
IDE	Investigational Device Exemption
OA	Intraoperative Aberrometry
IOL	Intraocular Lens
IOP	Intraocular Pressure
IRB	Institutional Review Board
ISO	International Organization for Standardization
K	Keratometry
LASIK	Laser In-Situ Keratomileusis
MR	Manifest Refraction
MRCYL	Manifest Refraction Cylinder
MRSE	Manifest Refraction Spherical Equivalent
Nd:YAG	Neodymium:Yttrium-aluminum-garnet
ND	Not Done
OD	Right Eye
OS	Left Eye


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OVD	Ophtha m c V scoe ast c Dev ce
PCO	Poster or Capsu e Opac f cat on
PE	Pred ct on Error
PH	P nho e
PMA	Premarket Approva
PP	Per Protoco
PRK	Photorefract ve Keratectomy
RRE	Res dua Refract ve Error
SAE	Ser ous Adverse Event
SIA	Surg ca y Induced Ast gmat sm
SLE	S t Lamp Exam nat on
SOC	Standard of Care
SPK	Superf ca Punctate Kerat t s
SSI	Secondary Surg ca Intervent on
TRRE	Target Res dua Refract ve Error
UCDVA	Uncorrected D stance V sua Acu ty
US	Un ted States
VA	V sua Acu ty

NOTE: The f rst occurrence of some abbrev at ons are not spe ed out n the document (e g un ts of measure)

PROTOCOL SYNOPSIS

Protocol Number #CP-00004 Rev.01	
Title	A Prospect ve, Mu t -Center Study to Eva uate the Safety and Performance of the C arV sta HARMONI® Modu ar Tor c Intraocu ar Lens System For The Treatment Of Pre-Ex st ng Cornea Ast gmat sm and Aphak a Fo ow ng Cataract Surgery
Regulatory Status	Phase 4 n CE countr es US - Pre-IDE
Investigational Device	C arV sta HARMON Modu ar Tor c ntraocu ar Lens System (HMTIOL)
Objectives	A study to eva uate the safety and performance of the HMTIOL n pat ents w th pre-ex st ng cornea ast gmat sm. Spec f ca y, <ul style="list-style-type: none"> • To ref ne the A-constant (ens constant) of the HMTIOL. • To eva uate the refract ve outcomes nc ud ng ast gmat sm correct on w th HMTIOL n pr mary cataract surgery. • To eva uate ax a and rotat ona stab ty of the HMTIOL
Number of Clinical Sites and Study Subjects	Up to 200 enro ed and mp anted eyes from up to 10 nvest gat ona s tes. Approx mate y 20 eyes, a max mum of 30, w be enro ed from each nvest gator/surgeon. Enro ment w be mon tored as out ned n Samp e S ze sect on and adjusted accord ng y.
Study Duration	A subjects w part c pate n the study for up to 6 months (3 months pre-op w ndow p us 3 months fo ow up per od). Tota study durat on w be approx mate y 9 months.
Study Design	Prospect ve, mu t -center c n ca study. A subjects w be seen for a Preoperat ve V st to capture base ne measurements. One or both eyes of each subject w undergo cataract surgery and be mp anted w th the HMTIOL. Eyes w th cornea ast gmat sm wh ch s w th n the d optr c range of the tor c IOL (1.50, 2.25 and 3.00D at the IOL pane after adjust ng for Surg ca y Induced Ast gmat sm) may be mp anted w th the study dev ce. Fo ow up:

	<ul style="list-style-type: none"> 1 Day, 1 Week, 1 Month, and 3 Months following cataract extraction.  <p>FIGURE 1 - COHORT SCHEDULE</p>
<p>Study Outcomes</p>	<p>The safety and performance of HMTIOL for the treatment of pre-existing corneal astigmatism and aphakic subjects following cataract extraction will be characterized.</p> <p><i>Performance Outcomes:</i></p> <ol style="list-style-type: none"> 1. Post op MRCYL for eye implanted with HMTIOL 2. Post op MRCYL prediction error for eye implanted with HMTIOL 3. Post op SEQ Prediction Error 4. UCDVA by study visit 5. BCDVA by study visit 6. IOL meridian measurement on the day of surgery 7. Rotation of IOL meridian from the day of surgery to 3 months, and between adjacent visits <ol style="list-style-type: none"> a. Meridian rotation ≤ 5 b. Meridian rotation < 10 c. Meridian rotation < 20 d. Meridian rotation < 30 e. Absolute value of rotation f. Signed value of the rotation 8. Reduction in cylinder power of eye implanted with HMTIOL (in Diopters) <ol style="list-style-type: none"> a. Absolute preop magnitude of K (or total corneal cylinder) minus the absolute post op magnitude of MRCYL at the corneal plane 9. Percentage reduction in cylinder power of eye implanted with HMTIOL <ol style="list-style-type: none"> a. Absolute preop magnitude of K (or total corneal cylinder) minus the absolute post op magnitude of MRCYL at the corneal plane expressed as a percentage of the absolute preop magnitude of K (or total corneal cylinder) <p><i>Safety Outcomes:</i></p> <ol style="list-style-type: none"> 1. Preservation of BCDVA

	<ol style="list-style-type: none"> 2. Rate of device-related Secondary Surgical Interventions (SSI's) other than optical exchange or rotational adjustment of the HMTIOL 3. Device deficiency 4. AEs rates <p>[Redacted]</p> <p>[Redacted]</p>
<p>[Redacted]</p> <p>[Redacted]</p>	<p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p>
<p>Inclusion Exclusion Criteria</p> <p>*both eyes do not need to be eligible</p>	<p><u>Inclusion criteria</u></p> <ol style="list-style-type: none"> 1. Adult at least 22 years of age at the time of consent 2. Must be willing and able to return for scheduled treatment and follow-up examinations for up to 6 months study duration 3. Planned removal of visually significant cataract (cortical, nuclear, posterior or subcapsular, or a combination) by manual phacoemulsification on cataract extraction 4. Pre-existing corneal astigmatism in the study eye. Magnitude of astigmatism within the range of available toric power 1.50, 2.25 and 3.00D at the IOL plane, after adjusting for Surgically Induced Astigmatism. 5. Target dioptric lens power within the range of 16 – 26D 6. Must be willing to discontinue contact lens wear for the duration of the study and demonstrate refractive stability prior to biometry and surgery <p>NOTE: Due to potential variability of VA and MR outcomes following gas permeable (GP) contact lens wear, all subjects who have worn GP contact lenses must complete the consenting process, discontinue wear for 3 weeks and exhibit a stable Manifest Refraction (as evidenced by</p>

	<p>two MR evaluations at least 1 week apart resulting in $\leq 0.50D$ MRSE difference in the two refractions) and Keratometry readings (as evidenced by two K readings at least 1 week apart resulting in $\leq 0.50D$ difference between the two readings) prior to final IOL calculations.</p> <p>Summary, any subjects who currently wear soft contact lenses must also complete the consent process, discontinue wear for a minimum of 1 week and return for repeat eligibility testing exhibit stable MR and K readings. In addition, qualifying subjects must discontinue contact lens wear in the study eye for the duration of study participation.</p> <ol style="list-style-type: none"> 7. BCVA projected to be 0.2 LogMAR or lower (as determined by the medical judgment of the Investigator or measured by potential acuity meter / retinal acuity meter (PAM / RAM) if necessary) 8. Visual symptoms related to cataract 9. Stability of the cornea has been demonstrated by keratometry 10. Dilated pupil size at least 7.0mm 11. Must be able to understand and provide informed consent themselves or through a representative with a witness present on the IRB or EC approved Informed Consent Form (ICF) <p><u>Exclusion criteria</u></p> <ol style="list-style-type: none"> 1. History of any intraocular or cornea surgery in study eye (including refractive) 2. Any type of cataract (e.g. traumatic, congenital, posterior) other than those noted in exclusion criteria 3. Pregnancy or lactation 4. Participation in any other drug or device clinical trial within 30 days prior to enrollment in this study and/or during study participation 5. Previous cornea based surgery (LASIK, PRK, LRI, etc.) 6. History of any clinical significant retinal pathology or ocular diagnosis (e.g. diabetic retinopathy, sclerodermis, macular degeneration, retinal detachment, amblyopia, optic neuropathy, etc.) in study eye that could alter or impact postoperative visual prognosis 7. History of any ocular conditions which could affect the stability of the IOL (e.g. pseudoexfoliation, zonular dysgenesis, evident zonular weakness or dehiscence, etc.) in study eye 8. Any anterior segment pathology likely to increase the risk of complications from phacolytic reaction cataract extraction (e.g. chronic uveitis, iritis, iridocyclitis, anterior uveitis, rubeosis iridis, clinical significant cornea, Fuch's, or anterior membrane dystrophies, etc.) in study eye
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	<p>9. Any v sua y s gn f cant ntraocu ar med a opac ty other than cataract n study eye (as determ ned by the nvest gator)</p> <p>10. Uncontro ed g aucoma n study eye (per Invest gator judgement)</p> <p>11. Subjects w th arge refract ve errors (hyperop a/myop a) of ax a or patho og c or g n that, n the op n on of the nvest gator, cou d confound outcomes</p> <p>12. Uncontro ed system c d sease (e.g. d abetes me tus, act ve cancer treatment, menta ness, etc.)</p> <p>13. Subject who, n the c n ca judgment of the nvest gator, s not su tab e for part c pat on n the study for another c n ca reason, as documented by the nvest gator</p> <p>14. Severe dry eye that, n the op n on of the nvest gator, wou d mpa r the ab ty to obta n re ab e study measurements</p> <p>15. Tak ng system c med cat ons that, n the op n on of the nvest gator, may confound the outcome or ncrease the ntraoperat ve and post-operat ve r sk to the subject (e.g. Tamsu os n Hydroch or de – F omax) or other med cat ons nc ud ng ant cho nerg cs, a pha adrenerg c block ng agents w th s m ar s de effects (e.g. sma pup /f oppy r s syndrome)</p> <p><u>Discont nuat on Cr ter a Dur ng Surgery</u></p> <ol style="list-style-type: none"> 1. V treous oss pr or to use of the nvest gat ona dev ce 2. Pos t ve poster or pressure prevent ng safe mp antat on of the ens system 3. Anter or chamber hyphema prevent ng v sua zat on of mp antat on 4. Any zonu ar or capsu ar rupture or capsu ar bag nstab ty 5. Intraoperat ve m os s prevent ng v sua zat on of f xat on features 6. Need for concom tant procedures (e.g. g aucoma surgery, LRI, RK, LASIK, etc.) 7. Subject who, n the c n ca judgment of the nvest gator, s not su tab e for part c pat on n the study for another c n ca reason, as documented by the nvest gator
<p>Planned Analyses</p>	<p>All eyes w th attempted study ens mp antat on w be nc uded n the safety analyses. The performance outcomes w be summar zed based on eyes mp anted w th HMTIOL. A data summar es w be performed based on observed data; no mputat on for m ss ng c n ca outcomes w not be performed. [REDACTED]</p> <p>[REDACTED] For cont nuous var ab es, mean, standard dev at on, med an, m n mum, and max mum w be prov ded.</p>

	<p>For categorica outcomes, the counts and percentages of eyes with each categorica eve of outcome will be summarized.</p> <p>The cumulative and persistent adverse events will be summarized at 3 months [REDACTED]</p> <p>For BCDVA and UCDVA, the number and percentages of eyes with visual acuity of 20/20 or better, 20/25 or better, 20/32 or better, 20/40 or better, and worse than 20/40 at each visit will be summarized.</p> <p>The MRSE prediction error will be calculated for each eye (Section 8) and summarized using statistical tests for continuous variables. The MRCYL prediction error (per cylinder power and vector analysis) will be derived for eyes with HMTIOL and summarized using statistical tests for continuous variables. [REDACTED]</p> <p>[REDACTED] The reduction in MRCYL (absolute power) and the percent reduction in cylinder power will be derived for each eye implanted with HMTIOL. Reductions will be summarized using statistical tests for continuous variables. Additonal vector analyses on MRCYL may be provided.</p> <p>IOL rotation will be derived for each eye from Day 0 (surgery) to postoperative visits. The statistical tests for continuous variables will be provided. The number and percentage of eyes with rotation of $\leq 5^\circ$, $< 10^\circ$, $< 20^\circ$, and $< 30^\circ$ will be calculated.</p>
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PROTOCOL CP 00004 REV 01

1.0 INTRODUCTION

Cataract surgery is a mainstay invasive procedure designed to restore vision with short recovery time. Advances in instrumentation and techniques over the past few decades have facilitated the enhancement in safety¹ while allowing for reproducible outcomes. While the serious adverse event rate remains low, selecting the right intraocular lens (IOL) important for spectacle independence remains an ongoing challenge. These are referred to as residual refractive error (RRE) and typically involves approximately 0.6 diopters (D)² of uncorrected focusing power. Furthermore, it is reported that current biometry measurements for selecting the correct IOL and subsequent surgical methods are associated with:

1. Up to 16% of patients undergoing additional surgical correction to achieve 20/20 unassisted vision².
2. Up to 55% of patients failing outside of the targeted postoperative refraction by at least 0.5D^{3,4,5}.
3. Between 14 and 24% of surgeries result in greater than 1 D of residual refractive error, when using manufacturer suggested constants³.
4. Up to 6% of patients experience unintended and significant post-operative rotation of a toric IOL⁴.

Rotations between 5-40 degrees have been observed and for every 1 degree of rotation, 3% of the corrective power of the toric surface is lost.

Patients are frequently satisfied with the results of their cataract surgery and enjoy relatively quick recovery with restoration of vision. However, as expectations have evolved over time, patients are demanding the same degree of spectacle independence that other refractive surgeries such as LASIK provide. Currently available options to help achieve spectacle independence when RRE is present include: contact lenses, corneal modification (surgery or other), IOL exchange/manipulation, or subsequent placement of a "piggyback" IOL. These alternatives have significant limitations and risks.

Complications due to contact lenses are rare; however, contact lens intolerance and contact lens-related infections could be serious and sight threatening. For some patients, contact lens wear is contraindicated and they must resort to the use of spectacles. Elderly patients in particular have difficulty handling contact lenses.

If the patient is willing to accept the additional cost and risks of a secondary procedure, the physician has more options; however, each of them poses a significant risk to the patient as outlined below.

Corneal modifications have been performed on tens of millions of people across the world with some form of refractive surgery (e.g. LASIK). For example, in the U.S. (where the most extensive data exists) 11.5M Americans have had corneal refractive surgery and over the next two decades many will need cataract surgery. LASIK increases the likelihood for residual refractive error post cataract surgery due to inaccurate IOL power calculations with biometry. There is hesitancy among many ophthalmologists to repeat LASIK for RRE after cataract surgery because the FDA has not specifically evaluated the safety and effectiveness of repeated LASIK in this setting. All the risks associated with the original LASIK procedure apply to retreatment, along with the increased potential for epithelial ingrowth, corneal ectasia and less robust nomograms for IOL selection for post cataract patients.

Furthermore, even for eyes that have not undergone prior corneal refractive surgery, the FDA has not specifically evaluated the safety and effectiveness of corneal refractive procedures (e.g., astigmatic keratotomy, LASIK, PRK, etc.) to address RRE following lens replacement surgery, so the use of approved lasers for this purpose in the U.S. is considered off-label and the risks are not well characterized. For example, this unclear how optical aberrations that might be present with an IOL in place are increased by aberrations induced by corneal refractive procedures, how likely corneal refractive procedures are to induce irregular astigmatism and worsen dry eye that is induced by cataract surgery, and whether corneal refractive procedures could create potential complications related to cataract surgery wound healing or IOL stability.

Furthermore, cornea based interventions do not address the root cause of RRE after cataract extraction (imprecise IOL power selection) and expose the patient to a new and independent set of possible adverse events. Thus, it would be desirable to be able to correct or modify the optical result without the need to reversibly and unpredictably alter corneal tissue following cataract extraction.

Sulcus placement of a "piggyback" IOL is a procedure that has not been evaluated for safety and effectiveness by the FDA so the use of approved IOLs for this purpose in the U.S. is off-label. Among the complications reported with this procedure are secondary pigment dispersal, rhytidosis/pupillary membranes, chronic iritis, hyphema, glaucoma, zonular disruption and/or posterior capsular rupture. Thus, it would be desirable to be able to correct or modify the optical result without the need to implant a "piggyback" IOL with its inherent serious risks.

IOL Exchange/Manipulation in general, is a technically challenging for the surgeon and poses an intraocular risk to intraocular structures including the lens capsule, iris, and endothelium of the cornea. The capsular bag fibroses weeks after IOL implantation creating a strong adhesion between the capsule and the IOL. Manipulation of the capsular bag to remove an IOL is the major risk in this setting and can damage the capsular bag including posterior capsular rupture and capsular bag dislocation. The capsular bag cannot be repaired once damaged. This risk increases over time as the capsular bag adheres to the IOL and haptics. Even when IOL exchange is not required, manipulation of traditional IOLs to rotate or center the optic introduces the risk of capsular or zonular damage which can cause further instability and emulsification. Thus, it would be desirable to be able to correct RRE without the need to remove the entire IOL partially after capsular contraction or fibrosis.

The Clarvsta Harmon™ Modular IOL System is a CE-approved device designed for safe and easy post-operative adjustment of residual refractive error (RRE). The modular IOL concept will serve as a valuable addition to the armamentarium of cataract surgeons. The goal of this technology is to improve refractive (spherical and toric) outcomes and avoid the significant risks of secondary procedures currently being performed as standard practice to address RRE in an indirect manner. It is anticipated that this modular lens will provide clinical utility in two basic areas, the first being the focus of this study.

1. Post-operative correction of residual spherical refractive error – Based on existing performance of conventional cataract surgery, researchers have concluded that refractive outcomes in normal eyes should be within 0.5D for 45% and within 1D for 85% of cataract cases⁵. This theoretical performance goal is substantially short of the real-world outcomes seen with corneal refractive surgery and which cataract patients and surgeons increasingly demand. As a consequence, secondary procedures to optimize visual outcomes following cataract surgery can be as high as 16% in some practices, particularly for premium lens patients².

Modular IOL technology is intended to directly improve refractive outcomes without the inherent risk of a full lens exchange or resorting to the use of a corneal refractive laser. With the HARMONI™ designed spherical optic component is intended to allow exchange for a different power optic or adjusted to a given visual axis without extensive manipulation of the delicate capsular bag, thereby avoiding the potential for intraocular (e.g., capsular and endothelial) trauma that is seen with traditional IOL exchanges.

2. Post-operative correction of rotational decentered or off-axis toric lenses – For every 1 degree a toric IOL axis is off from the true postoperative axis of astigmatism, there will be a 3.3% loss of toric correction. Study data supporting a recent approval of a toric IOL (P930014/S045) showed that 6.7% of eyes underwent a secondary surgical intervention (SSI) in the form of IOL repositioning to resolve RRE. The HARMONI™ modular technology can be used to improve outcomes in patients where the toric lens has been decentered to an unintended position during the post-operative period. The HARMONI™ optic allows for adjustment to a given visual axis without manipulation of the base component thereby avoiding the potential for capsular trauma that is seen when toric IOLs are manipulated in the post-operative period.

The Clarvsta Harmon™ Monofocal (non-toric) Modular IOL System has been available since 2015. A toric version, the Clarvsta Harmon™ Toric Modular IOL System (HMTIOL), has been recently CE-approved.

2.0 OBJECTIVES

The objective of this study is to demonstrate the safety and performance of the HARMONI™ Modular Toric IOL in patients with pre-existing astigmatism.

The specific objectives are:

- To refine the A-constant (lens constant) of the HMTIOL.
- To evaluate the refractive outcomes including astigmatism correction with HMTIOL in primary cataract surgery.
- To evaluate axial and rotational stability of the HMTIOL.

3.0 STUDY DESIGN

3.1 DESCRIPTION OF THE STUDY

This is a prospective, multi-center study being conducted at up to 10 investigational sites. All sites will have Institutional Review Board (IRB) or Ethics Committee (EC) review and approval prior to recruiting potential subjects. Up to 200 eligible eyes from subjects with visually significant cataracts will undergo cataract extraction during participation. Approximately 20 eyes, a maximum of 30 eyes, will be enrolled by each investigator/surgeon. All subjects will be seen for a Preoperative Visit to capture baseline measurements. One or both eyes of each subject will undergo cataract surgery and be implanted with the HMTIOL. Eyes with corneal astigmatism that is within the diopter range of the toric IOL (1.50, 2.25 and 3.00D at the IOL plane after adjusting for Surgically Induced Astigmatism) will be implanted. All subjects will be followed for 3 months.

Follow up:

- 1 Day, 1 Week, 1 Month, and 3 Months following cataract extraction.



Figure 2 - Cohort Schedule

All subjects enrolled in this study will be evaluated for 3 months following cataract extraction (see Appendix A – Schedule of Assessments).

3.2 STUDY POPULATION

After completing the informed consent process, subjects will be screened for participation in the study.

3.2.1 INCLUSION CRITERIA

1. Adult at least 22 years of age at the time of consent

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2. Must be willing and able to return for scheduled treatment and follow-up examinations for up to 6 month study duration, per eye.
3. Planned removal of visually significant bilateral cataract (cortical, nuclear, posterior or subcapsular, or a combination) by manual phacoemulsification cataract extraction
4. Pre-existing corneal astigmatism in at least 1 eye. Magnitude of astigmatism 0.75 to 2.50D of corneal astigmatism (within the range of available toric power 1.50, 2.25 and 3.00D at the IOL plane after adjusting for Surgically Induced Astigmatism)
5. Target dioptric lens power within the range of 16 – 26D
6. Must be willing to discontinue contact lens wear for the duration of the study and demonstrate refractive stability prior to biometry and surgery

NOTE: Due to potential variability of VA and MR outcomes following gas permeable (GP) contact lens wear, all subjects who have worn GP contact lenses must complete the consenting process, discontinue wear for 3 weeks and exhibit a stable Manifest Refraction (as evidenced by two MR evaluations at least 1 week apart resulting in ≤ 0.50 D MRSE difference in the two refractions) and Keratometry readings (as evidenced by two K readings at least 1 week apart resulting in ≤ 0.50 D difference between the two readings) prior to final IOL calculations. Similarly, any subjects who currently wear soft contact lenses must also complete the consenting process, discontinue wear for a minimum of 1 week and return for repeat eligibility testing exhibit stable MR and K readings. In addition, qualifying subjects must discontinue contact lens wear in the study eye for the duration of study participation.

7. BCVA projected to be 0.2 LogMAR or lower (as determined by the medical judgment of the Investigator or measured by potential acuity meter / retinal acuity meter (PAM / RAM) if necessary)
8. Visual symptoms related to cataract
9. Stability of the cornea has been demonstrated by keratometry
10. Dilated pupil size at least 7.0mm
11. Must be able to understand and provide informed consent themselves or through a representative with authority present on the IRB or EC approved Informed Consent Form (ICF)

3.2.2 EXCLUSION CRITERIA PRIOR TO SURGERY

1. History of any intraocular or corneal surgery in study eye (including refractive)
2. Any type of cataract (e.g. traumatic, congenital, posterior) other than those noted in inclusion criteria
3. Pregnancy or lactation

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4. Part c pat on n any other drug or dev ce c n ca tra w th n 30 days pr or to enro ng n th s study and/or dur ng study part c pat on
 5. Prev ous cornea based surgery (LASIK, PRK, LRI, etc.)
 6. H story of any c n ca y s gn f cant ret na patho ogy or ocu ar d agnos s (e.g. d abet c ret nopathy, schem c d seases, macu ar degenerat on, ret na detachment, amb yop a, opt c neuropathy, etc.) n study eye that cou d a ter or m t f na postoperat ve v sua prognos s
 7. H story of any ocu ar cond t ons wh ch cou d affect the stab ty of the IOL (e.g. pseudoexfo at on, zonu ar d a y s s, ev dent zonu ar weakness or deh scence, etc.) n study eye
 8. Any anter or segment patho ogy ke y to ncrease the r sk of comp cat ons from phacoemu s f cat on cataract extract on (e.g. chron c uve t s, r t s, r docy t s, an r d a, rubeos s r d s, c n ca y s gn f cant cornea , Fuch's, or anter or membrane dystroph es, etc.) n study eye
 9. Any v sua y s gn f cant ntraocu ar med a opac ty other than cataract n study eye (as determ ned by the nvest gator)
 10. Uncontro ed g aucoma n study eye (per Invest gator judgement)
 11. Subjects w th arge refract ve errors (hyperop a/myop a) of ax a or patho og c or g n that, n the op n on of the nvest gator, cou d confound outcomes
 12. Uncontro ed system c d sease (e.g. d abetes me tus, act ve cancer treatment, menta ness, etc)
 13. Subject who, n the c n ca judgment of the nvest gator, s not su tab e for part c pat on n the study for another c n ca reason, as documented by the nvest gator
 14. Severe dry eye that, n the op n on of the nvest gator, wou d mpa r the ab ty to obta n re ab e study measurements
 15. Tak ng system c med cat ons that, n the op n on of the nvest gator, may confound the outcome or ncrease the ntraoperat ve and post-operat ve r sk to the subject (e.g. Tamsu os n Hydroch or de – F omax) or other med cat ons nc ud ng ant cho nerg cs, a pha adrenerg c b ock ng agents w th s m ar s de effects (e.g. sma pup /f oppy r s syndrome)
- 3.2.3 D SCONT NUAT ON CR TER A DUR NG SURGERY
1. V treous oss pr or to use of the nvest gat ona dev ce
 2. Pos t ve poster or pressure prevent ng safe mp antat on of the ens system
 3. Anter or chamber hyphema prevent ng v sua zat on of mp antat on
 4. Any zonu ar or capsu ar rupture or capsu ar bag nstab ty
 5. Intraoperat ve m os s prevent ng v sua zat on of f xat on features
 6. Need for concom tant procedures (e.g. g aucoma surgery, LRI, RK, LASIK, etc.)

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7. Subject who, in the clinician judgment of the investigator, is not suitable for participation in the study for another clinician reason, as documented by the investigator

3.3 STUDY VISITS

The timing and frequency of each assessment to be performed at each visit, will be carried out according to "Appendix A – Schedule of Assessments."

Procedures to be followed in order to carry out each individual assessment, are under separate cover (See study specific Manual of Procedures).

In all instances for those subjects with both eyes enrolled, if the first study eye and secondary eye post-operative assessments cannot be seen on the same day and both remain "n-w ndow," the subject must return for a separate visit in order to maintain "n-w ndow" status for both eyes throughout study participation.

3.3.1 PRE-OPERATIVE VISIT – SCREENING/BASELINE (DAY -90 TO DAY 0)

After providing informed consent (see Section 4.1), prospective subjects will be screened to determine whether they meet enrollment criteria. Demographic information, relevant ocular history, and current ocular medication use will be collected. If all criteria are met, the subject will be considered enrolled, IOL calculation completed to determine appropriate HMTIOL power, and the subject scheduled for surgery.

3.3.2 DAY 0 VISIT (CATARACT SURGERY AND IOL IMPLANTATION)

Record any changes in concomitant medications and medical history, prepare the subject for surgery in the study eye (see Surgical Procedure Guide), and re-evaluate inclusion/exclusion criteria to ensure subject still qualifies to participate.

The Investigator will carry out the surgical procedure and HMTIOL implantation as specified in the Surgical Procedure Manual and the following details will be captured in both Source Documents and eCRFs:

- Date of surgery
- Operative eye
- Incision location and size
- Ophthalmic Viscoelastic Device (OVD) used
- Anterior chamber used pre-, intra-, and post-operatively (ophthalmic and system c)
- Model, serial number, and diopter of HMTIOL implant components
- Toric IOL power and axis orientation
- IOL injection device

Once the subject is confirmed stable post-surgery, provide IRB / EC approved post-operative instructions and discharge.

Record any AEs, adverse device effects (ADEs), unexpected adverse device effects (UADEs), or device deficiencies (DD) (see Sections 6.1.1, 6.1.2, 6.1.3, or 6.1.4 respectively) observed pre-, intra-, or post-operatively.

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In the event the subject is not implanted with the HMTIOL, the surgeon will provide the best care option to the patient, including implanting a commercially available IOL.

In the event the subject is not implanted with an HMTIOL device due to an intra-operative complication, the subject will be discontinued (see Section 4.5).

3.3.3 POST-OPERATIVE VISITS (DAYS 1 – 60)

All subjects implanted with a study lens will be seen for 1 Day, 1 Week, 1 and 3 Month assessments as outlined in Appendix A.

IN ADDITION, the second eye, fellow eye and enrolled in the study, will be implanted during this time period. It is recommended (at the final discretion of the Investigator), to complete this procedure as close to the 1 Week Visit (after first eye cataract extraction) as possible. Since second eye assessments will be completed on the same schedule as the first eye assessments (see Appendix A – Table 1), this will allow the subject further convenience in attending as many post-operative biometric assessment visits as possible.

The Investigator will carry out the second eye surgical procedure as specified in the Surgical Procedure Manual and the following details will be captured in both Source Documents and eCRFs:

- Date of surgery
- Operative eye
- Incision location and size
- Ophthalmic Viscoelastic Device (OVD) used
- Anesthetic used pre-, intra-, and post-operatively (ophthalmic and systemic)
- Model, serial number, and diopter of HMTIOL implant components
- Toric IOL power and axis orientation
- IOL injection device

Once the subject is confirmed stable post-surgery, provide post-operative instructions and discharge.

NOTE: A concomitant medication, AE, and SAE collection must be continued throughout the course of the study. Any outcomes resulting in unacceptable RRE (as determined between Investigator and Subject), can be addressed with spectacles, a contact lens, or surgical correction. Any PO surgical adjustments to address RRE (cornea refractive surgery, lens exchange, lens rotation, etc.) will be carried out as determined to be in the best interest of the subject. The course of treatment will follow the Investigator's SOC and be collected as a concomitant procedure. If surgical correction of the RRE is performed during the investigation period, the refractive error prior to secondary surgery is reported as the final result.

3.3.4 3 MONTH VISIT (DAY 80-100)

Assessments will be completed as indicated in Appendix A – Tables 1 and 2. In the event the second eye is out of window at this visit, the subject will return in-window to complete second eye assessments.

3.3.5 UNSCHEDULED VISITS

If at any time during the study, outside of the above scheduled visits, the subject requests or the Investigator determines the subject should be assessed, an unscheduled visit may occur. Adverse events and concomitant

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med cat ons w ll be recorded and assessments deemed necessary by the Invest gator shou d be performed on e ther or both eyes.

If a subject s seen for mu t p e v s ts dur ng a g ven v s t w ndow, the data from a v s t that s ntended to meet the protoco requ rements for the schedu ed v s t shou d be captured n the v s t eCRF. Where such a determ nat on cannot be made, the f rst v s t w th n the schedu ed v s t w ndow w ll be used for comp et on of the protoco requ red v s t. If assessments are m ss ng from that v s t, however captured at subsequent v s ts w th n w ndow, those assessments can be co ected as part of the protoco v s t. In such a c rcumstance, the v s t date w ll rema n cons tent w th the f rst v s t estab shed w th n the v s t w ndow, per the scenar o above. Any add t onal and app cab e data captured and assoc ated w th the Study Eye w ll be captured as an Unschedu ed V s t.

3.3.6 MISSED VISITS

If a subject m sses any schedu ed v s t and cannot be seen pr or to the start of the next v s t w ndow, the v s t w ll be cons dered "m ssed."

4.0 STUDY METHODS

Pr or to recru tment of any subjects nto the study, rev ew and wr tten approva of the protoco and nformed consent must be obta ned from the Inst tut ona Rev ew Board (IRB) or Eth cs Comm ttee (EC) by each part c pat ng c nca s te.

4.1 INFORMED CONSENT

Informed consent must be obta ned and documented n wr tng pr or to the n t at on of any study procedures. The subject (or the subject s ega y author zed representat ve) must be a owed suff c ent t me to thoroughly read (or have exp a ned), the nformed consent form. The Invest gator or h s/her des gnee shou d answer any quest ons that the subject/representat ve m ght have. If the subject agrees to part c pate n the study, (.e. prov des nformed consent) the subject/representat ve must s gn two cop es of the nformed consent form. The w tness and the Invest gator must a so s gn both cop es of the nformed consent form. One copy of the nformed consent form shou d be g ven to the subject/representat ve. If app cab e, t w ll be prov ded n a cert f ed trans at on of the oca l language. As part of the consent ng process, the subjects w ll be nformed of the r r ght to treatment for any njur es re ated to the study. Any and a such treatment f necessary, w ll be pa d for by the Sponsor to the extent t s not covered by a subject's hea thcare coverage (subject to oca eth cs comm ttee approva). Comp et on of the consent ng process as we ll as the date of the subject's s gnature on the nformed consent form shou d be noted n the subject's med ca chart.

Subjects who complete the nformed consent process w ll be screened for e g b ty. Screened subjects w ll be recorded on s te-spec f c screen ng ogs and once they are determ ned as be ng e g b e, they w ll be enro ed nto the study and an HMTIOL order p aced w th the Sponsor f necessary. A e g b e subjects w ll rece ve a st pend to attend schedu ed study v s ts as an a owance for food, t me, and trave expenses.

4.2 ASSIGNMENT OF SUBJECT IDENTIFICATION

A un que and sequent a subject dent f cat on number (ID) w ll be ass gned at screen ng and never dup cated for another subject. Th s ID w ll be used on a study-re ated documents. To ma nta n conf dent a ty, the subject's name w ll not be recorded on any study document other than the nformed consent form.

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4.3 SCREEN FAILURE

A record of screen failures and the reasons for the screen failures will be recorded in the subject source documents and captured in the eCRF for summary.

4.4 SUBJECT COMPLETION

The subject has completed the entire study when the HMTIOL has been implanted and the Sponsor receives completed electronic Case Report Form (eCRF) documentation for all visits and a Study Exit eCRF. Subjects who require further follow-up for an AE will be followed according to Section 6.3.4.

A Study Exit eCRF must be completed for all subjects who complete the clinical investigation.

4.5 SUBJECT DISCONTINUATION

A subject MUST be discontinued prior to the final study visit for any of the following reasons:

- Death
- Subject enrolled and scheduled for surgery but is not implanted with an HMTIOL in at least one eye
- Surgical complication(s) unrelated to the investigation device preventing the implantation of the HMTIOL (i.e. capsular hexis tear, zonular rupture, evident zonular weakness or dehiscence, posterior capsular rupture, vitreous loss, posterior capsular plaque, significant detached Descemet's membrane, significant anterior chamber blood, retinal detachment or damage, corneal endothelial touch, unsuccessful/uncompleted phacoemulsification, haptic and/or optic damage/haptic amputation)
- Implantation of the HMTIOL System

If the study requires expected, one postoperative visit should be completed to record best-corrected distance visual acuity (BCDVA) before the subject is discontinued.

Subjects who withdraw from the study will be asked to complete procedures outlined in the 3 Month Visit (if withdrawn prior to that visit). Subjects who are terminated due to an AE will be followed, if possible, at least until resolution or stabilization of the AE. Subject withdrawals will be documented clearly on the source document and applicable eCRF.

Prior to discontinuing a subject, every effort should be made to contact the subject, schedule a final study visit, and obtain as much follow-up data as possible. Adverse events will be followed as described in Section 6.3.4. Discontinued subjects should be followed outside of the study protocol according to the Investigator's normal postoperative standard of care.

A Study Exit eCRF must be completed for all subjects who discontinue from the clinical investigation.

4.6 LOST TO FOLLOW UP

Subjects who miss the 3-month visit, as defined by the visit windows and cannot be contacted, may be considered lost to follow-up. A follow-up attempt will be documented and kept with the subject's source documentation, and the applicable eCRFs will be completed.

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Subjects that voluntarily withdraw consent after implementation with the HMTIOL will be considered Lost to Follow-Up and an Exit Form will be completed.

4.7 STUDY COMPLETION

Clarvsta will notify the Investigators when to contact the IRB / EC to announce study completion at the site.

4.7.1 EARLY STUDY TERMINATION

Clarvsta has the right to terminate this study at any time. Reasons for terminating the study may include, but are not limited to, the following:

- The incidence or severity of adverse events in this or any ongoing studies involving the same technology (if applicable), indicates a potential health hazard to subjects
- Subject enrollment is unsatisfactory
- Data recordings inaccurate or incomplete.

In the event of premature study termination, appropriate notification will be given to the Investigators, IRB / ECs, and regulatory bodies as applicable. In addition, Clarvsta (or designee) will instruct a Investigator to discontinue dispensing study materials or treatments, ensure all subjects complete appropriate follow-up, and will arrange study closeout visits at each site as appropriate.

4.8 CONCOMITANT THERAPIES

4.8.1 CONCOMITANT MEDICATION

Concomitant medications are any prescription drugs used by a subject unrelated to study participation. Any medication the Investigator deems in the best interest of the subject, is acceptable to prescribe or administer. However, any and all are to be recorded in both the Concomitant Medication source document and eCRF as well as the reason for use (indication). An AE is to be reported and/or recorded as appropriate (see Section 6.0).

4.8.2 CONCOMITANT PROCEDURES

A concomitant procedure is any invasive or non-invasive ocular or per-ocular procedure that takes place during study participation and will be captured in both the Concomitant Procedure Source Document and eCRF. The following are examples of two such procedures:

- Any PO surgical adjustments (i.e. cornea refractive surgery, lens exchange, lens rotation, etc.)
- Neodymium: Yttrium-aluminum-garnet (Nd:YAG) procedure to treat Posterior Capsule Opacification (PCO), if necessary. This will be listed as "Nd:YAG Capsulotomy."

Note: Any Nd:YAG capsulotomy procedures prior to exit will be performed only in response to spontaneous subject complaints (i.e. not solicited by study personnel) of reduced Visual Acuity (VA) or glare that affects functional vision, which is associated with PCO or striae, and captured on the eCRF in SLE findings.

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An AE s to be reported and/or recorded as appropriate (see Section 6.0). Any procedure reported in the Concomitant Procedure eCRF must have a corresponding Indication listed in either the Ocular History or AE eCRF (Only exception: PCO – See Section 6.1 for further details).

4.9 PROTOCOL DEVIATIONS

All protocol deviations, the date of deviation, and reason will be documented in the Source Document and eCRF. All deviations will be categorized as either major or minor in the following manner:

Major:

- Deviations impacting subject safety (e.g. eligibility)
- Deviations impacting subject rights (e.g. consent)
- Deviations impacting data integrity (e.g. instrumentation, masking)

Minor:

- All other deviations (e.g. out of window visits, missed data point, etc.)

All major deviations must be reported by the Investigator to the Sponsor and IRB/EC immediately. Subject assessments will continue per protocol for the duration of planned participant unless the deviations put the subject at risk or the subject's condition requires that he/she be discontinued from the study.

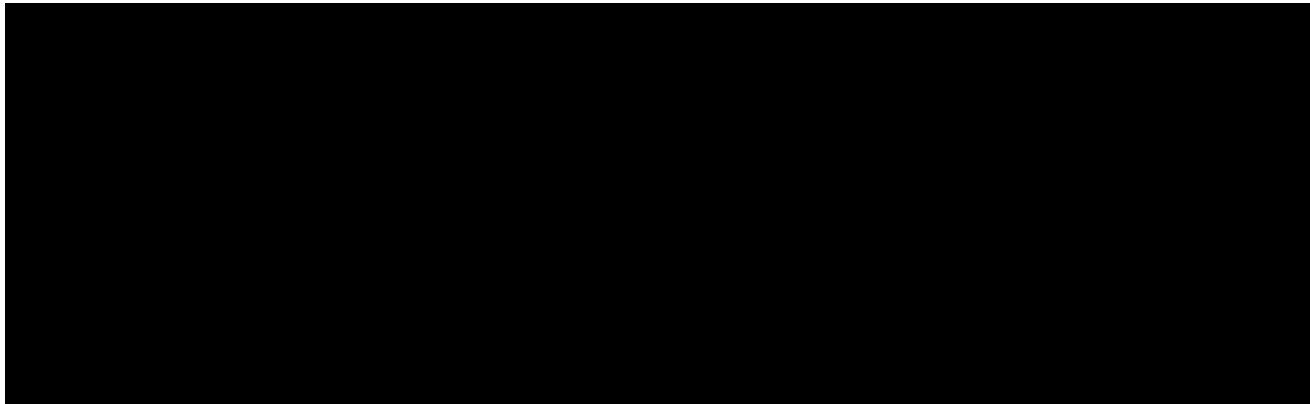
5.0 STUDY MATERIALS

5.1 DESCRIPTION OF TEST ARTICLE

The HARMONI™ Modular Toric Intraocular Lens (HMTIOL) System is designed to allow safe exchange or adjustment of an IOL optic after implantation. [REDACTED]

[REDACTED]

[REDACTED]



5.1.1 INSTRUCTIONS FOR USE

Refer to the Surgical Guide for a use and administration details.

5.2 PACKAGING AND LABELING

All packaging and labeling will be consistent with the current study design. The labeling will include at a minimum, the following:

- Sponsor name and address
- "For Single Use Only" statement (or equivalent symbol)
- Sterility symbol
- Storage temperature range requirements or equivalent (e.g. "Store at room temperature.")
- Expiration date
- Power designation
- Unique serial number
- Model number

5.3 ACCOUNTABILITY

The Investigator is responsible for keeping accurate accountability records of the number of study lenses received, dispensed, and returned to Sponsor. The study lenses must be stored under the appropriate conditions in a secure area and are to be implanted on your subjects enrolled in the study, in accordance with the conditions specified in this protocol.

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Accountability records will include the following:

- Model and serial numbers
- Receipt date
- Quantities received
- Initials (attributability) of site personnel who received, dispensed, or returned study lenses
- Date of use
- Subject and eye treated with the study lenses (by Subject ID and Initials only)
- Date returned to Sponsor
- Defective or damaged study devices

Periodically throughout the study and/or upon completion, the Sponsor (or designee) will review and verify the Investigator's accountability records. Following verification, and as directed by the Sponsor, unused and explanted products must be returned to the Sponsor.

Note: In addition, any study lenses or components deemed defective, damaged, malfunctioning, or explanted must be retained by the site and returned to the Sponsor for evaluation. Under no circumstances are any components to be discarded or otherwise disposed of. If there is any question as to the applicability of this directive, consult the Protocol Contacts page of this protocol and discuss the situation with a Sponsor representative.

5.4 OTHER MATERIALS

Additional materials can be provided to sites for the duration of the study on an as-needed basis and may include:

- ETDRS light box, glare source, and charts to perform the standardized VA assessments described in the Manual of Procedures
- Medication injectors (for study lenses injection only)
- Still camera

6.0 ADVERSE EVENTS

Safety assessments include adverse events/serious adverse events, and adverse device events. The reporting time period is from the time of consent through the last study visit (3 Month Visit post cataract extraction).

6.1 DEFINITIONS

6.1.1 ADVERSE EVENT (AE)

An AE is any untoward medical event in a subject that does not necessarily have a causal relationship to the study device or protocol. AEs include Adverse Device Effects (ADEs). Conditions or diseases that are pre-existing and/or chronic but stable should not be recorded on AE pages of the eCRF. Similarly, changes in a pre-existing and/or chronic condition of disease that are consistent with natural disease progression are NOT adverse events and also should not be recorded on the AE pages of the eCRF.

Refer to Section 6.3.1 for instructions regarding events that require expedited reporting to the Sponsor and IRB/EC.

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Experience with cataract surgery and the important role of IOLs has shown that some conditions can be considered normal or expected events following these procedures. The following may be considered normal or expected events after cataract surgery and only need to be reported as AEs as specified here:

- Irritation (redness) – if treated longer than standard post-operative regimen or if it recurred after complete resolution
- Persistent Cornea Stroma Edema (if present at 1 Month)
- Increased IOP on any follow-up medical/surgical intervention(s) required (i.e. medication, paracentesis manipulation)
- BCDVA decrease of 10 or more letters (2 lines) from any previous visit not secondary to any underlying condition present at time of enrollment
- Any expected post-operative ocular event requiring a change in standard postoperative medication regimen

Note: PCO is not to be reported as an AE, as per ISO 11979-7:2014.

Note: The HMTIOL is designed for safety and ease of optic exchange and rotational adjustment post-primary cataract surgery. Optic exchange and optic rotation to refine refractive outcomes are not to be reported as AE's.

Particular attention should be paid to ensure timely and accurate reporting of any of the following cataract surgery related events:

- Endophthalmitis
- Capsular injury
- Vitreous loss
- Macular edema
- Retinal detachment
- Lens dislocation
- Moderate to severe cornea edema
- Pupillary block / angle closure
- Hypopyon or hyphema

6.1.2 ADVERSE DEVICE EFFECT (ADE)

An ADE is any untoward or unintended effect, event, or response surrounding and with a causal relationship with the use of a medical device. This definition may include any event resulting from insufficient or inadequate instructions for use or the deployment of the device or other device malfunctions. This definition includes any event that is a result of a user error and any event that affects a user of the device (i.e. caregiver, bystander, etc.).

6.1.3 UNANTICIPATED ADVERSE DEVICE EFFECT (UADE)

A UADE is any ADE, which is unanticipated and poses a risk to health or safety, or any life-threatening problem or death caused by or associated with a device, if that effect, problem, or death was not previously identified in nature, severity or degree of incidence (see Investigator Brochure [IB]). UADEs also include any

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unanticipated sight-threatening events and any other unanticipated serious problem associated with a device that relates to the rights, safety, or welfare of subjects.

6.1.4 DEVICE DEFICIENCIES (DD)

A Device Deficiency (DD) is a failure of the device to meet its performance specifications or expectations, or otherwise not perform as intended. This can include either a malfunction or damage to the device or any part thereof, regardless of the source of malfunction or damage, including user error, and regardless of the presence of injury (or lack thereof) to subject, user, or bystander.

6.2 AE EVALUATION

AEs experienced in this study may be associated with the study device (i.e. ADE) or the study protocol as demonstrated in the following non-exhaustive list of examples:

Study Device (ADE)

- IOL dislocation
- Expellant due to haptic break/damage
- Expellant due to base and/or optic damage

Study Protocol

- Allergic reaction to dewatering drops
- Lens remnants following surgery
- Capsular tear during surgery to implant study device

6.2.1 EVALUATION

All AEs will be evaluated for and by the following criteria:

- Classification (SAE, AE, ADE or combination)
- Diagnosis (or description of ADE)
- Severity
- Relationship (Causality) to study protocol or device
- Outcome
- Treatment or action taken

6.2.1.1 CLASSIFICATION

When evaluating AEs, the Investigator must determine if the event is serious using the following guidelines:

A Serious Adverse Event (SAE) is any AE (ocular or non-ocular) that:

- results in death
- results in serious injury, defined as:
 - ◆ life-threatening
 - ◆ permanent impairment of a body function (e.g. blindness) or structure

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- ◆ necessitates medical or surgical intervention to prevent permanent impairment of a body function or permanent damage to a body structure, or
- ◆ results in a potentially sight-threatening condition
- a major function that might cause or contribute to a serious injury or death if it were to recur
- requires inpatient hospitalization or prolongation of existing hospitalization*, or
- leads to fetal distress, fetal death, a congenital abnormality, or birth defect

*Hospitalization is a criterion for assessment of seriousness. Hospitalization in the absence of a medical AEs is not sufficient an AE. For example, the following reports of hospitalization without a medical AE should not be considered either serious or an AE:

- admission for treatment of a pre-existing condition not associated with the development of a new AE or with worsening of the pre-existing condition (e.g. for work-up of persistent pretreatment abnormality)
- social admission (e.g. subject has no place to sleep)
- administrative admission (e.g. for yearly physical exam)
- optional admission not associated with a worsening of a pre-existing condition (e.g. elective cosmetic surgery or elective surgery for pre-existing repair of the Achilles tendon [which had not worsened while on study])
- hospitalization for admission without a medical AE

NOTE: For the purposes of this protocol, any UADE will be considered an SAE.

6.2.1.2 DIAGNOSIS OR DESCRIPTION

In all instances, it is preferable to report all AEs and SAEs by diagnosis rather than a sign or symptom if possible. This may necessitate the revision of a previously reported AE or SAE as more information is obtained.

6.2.1.3 SEVERITY

When evaluating AEs, the Investigator must determine the severity of symptoms using the following guidelines:

- Mild: Subject awareness of a sign or symptom that is easily tolerated, requires no treatment, and does not interfere with the subject's daily activities
- Moderate: Subject awareness of a sign or symptom which may be a low level of concern to the subject and may interfere with daily activities, but can be relieved by simple therapeutic care
- Severe: A sign or symptom that interrupts the subject's daily activity and requires systemic therapy or other treatment

6.2.1.4 RELATIONSHIP (CAUSALITY) TO STUDY DEVICE OR STUDY PROTOCOL

When evaluating AEs, the Investigator must evaluate the relationship of the event to the study device and study protocol, using the following guidelines:

- Not Related: AEs which are clearly and incontrovertibly due to causes other than the study device or study protocol (e.g. concomitant disease, etc)
- Related: AEs which are felt with a reasonable degree of certainty to be related to the study device or study protocol
- Unknown: Adverse events for which a connection with the study device or study protocol cannot be ruled out with certainty, or not enough information is available to assess the relationship

6.2.1.5 OUTCOME

The clinical outcome of an AE will be categorized as follows:

- Resolved without sequelae
- Resolved with sequelae (specify)
- Ongoing (i.e. continuing at time of study discontinuation)
- Death

6.2.1.6 TREATMENT OR ACTION TAKEN

Treatment or Action Taken will be categorized as follows:

- None
- Medical Intervention (specify on Concomitant Medication Source and eCRF)
- Surgical Intervention (specify on Concomitant Procedure Source and eCRF)
- Other (specify)

6.3 REPORTING

6.3.1 ON-SITE EXPEDITED REPORTING

The Investigator is obligated to report the following to the Sponsor within 24 hours of becoming aware of the event to ensure the safety of all participants in the study and to meet regulatory reporting requirements:

- All SAEs, regardless of relationship to study device or study protocol utilizing the SAE/ADE Report Form
- All AEs determined to be related to the study device (ADEs or UADEs) utilizing the SAE/ADE Report Form
- All HMTIOL expantants (consult Medical Monitoring on Protocol Contacts page prior to expantant, if possible)
- All Device Deficiencies (DD) utilizing the DD Report Form

Refer to the Protocol Contacts page for appropriate Sponsor contact to report the above events.

NOTE: Any explanted HMTIOL devices, exchanged HMTIOL optics, or any components of the HMTIOL System presenting a deficiency or malfunction are to be retained by the site until collected by the Sponsor. Under no circumstances are they to be destroyed or otherwise discarded.

When reporting these events to the Sponsor, the site should forward any supporting documents along with the appropriate reporting form and complete the corresponding eCRF, if applicable. Sites must also report applicable events to the reviewing IRB/EC per established reporting procedures.

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6.3.2 OFF-SITE SAE REPORTING

As a multicenter clinical trial, the Investigators may receive "off-site" reports (e.g. an SAE Report). These are Sponsor reports of SAEs which occurred at other sites for the same trial, or different trials using the same test article, that met the criteria for reporting. These should be reported to the reviewing IRB per the established reporting procedures.

6.3.3 REPORTING OF COMPLAINTS FOR ANCILLARY MARKETED PRODUCTS

Any complaints, malfunctions or similar events related to ancillary marketed products used in this study should be reported by the Investigators in accordance with the reference information provided on the associated commercial packaging.

6.3.4 ADVERSE EVENTS AND SERIOUS ADVERSE EVENTS AT SUBJECT EXIT

Ongoing SAEs and ADEs will be followed until resolution or no further change in the conditions expected. Non-serious AEs that are ongoing at study exit versus or upon discontinuation from the study will be followed per the Investigator's standard of care. Documentation in the eCRF of these follow-ups not required although subject care should continue as appropriate.

6.4 SAFETY MONITORING AND REVIEW

All reported AEs will be reviewed on a weekly basis and assessed for trending and causality to study device or procedure. ADEs, UADEs, DDs, and SAEs will be reviewed upon receipt of expedited reporting (Section 6.3.1). Any unexpected trends or events will necessitate careful review and assessment of any change in the risks associated with participation on or study discontinuation.

If an event occurs affecting a subject's risk of participation, Off-Site Reporting (Section 6.3.2) will be utilized to update sites and the IRB(s) / EC(s) if the safety profile of the event provides for the continuation of the study, informed Consent Forms will be revised as necessary to ensure subjects' consent to continue participation given the known revised risks.

As outlined in Section 4.7.1, the Sponsor reserves the right to discontinue enrollment at any time.

7.0 STUDY OUTCOMES**7.1 SAFETY OUTCOMES**

Safety will be evaluated by assessing the following:

- Preservation of BCDVA
- Rate of device-related SSI's other than optical exchange and rotational adjustment of the HMTIOL
- AE rates
- Device deficiencies

7.2 PERFORMANCE OUTCOMES

- Calculation of Standard error of the mean, sensitivity, power, A-constant for refinement
- 1 and 3 months MRCYL for eyes implanted with HMTIOL
- 1 and 3 months MRCYL prediction error for eyes implanted with HMTIOL
- 1 and 3 months MRCYL prediction error for eyes implanted with HMTIOL per vector analyses

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- 1 and 3 months SEQ prediction error
- UCDVA by study visit
 - Percent of eyes that achieve
 - 20/20 or better
 - 20/25 or better
 - 20/32 or better
 - 20/40 or better
 - Worse than 20/40
- BCDVA by study visit
 - Percent of eyes that achieve
 - 20/20 or better
 - 20/25 or better
 - 20/32 or better
 - 20/40 or better
 - Worse than 20/40
- IOL meridian measurement on the day of surgery
- Rotation of IOL meridian at 1 day, 1 week, 1 and 3 months
 - Percent of eyes with rotation ≤ 5
 - Percent of eyes with rotation < 10
 - Percent of eyes with rotation < 20
 - Percent of eyes with rotation < 30
 - Absolute value of rotation
 - [REDACTED]
- Reduction in cylinder power of the eye implanted with HMTIOL (absolute preoperative magnitude of corneal cylinder (K) minus the absolute postoperative magnitude of MRCYL at the corneal plane)
- Percentage reduction in cylinder power of the eye implanted with HMTIOL (absolute preoperative magnitude of corneal cylinder (K) minus the absolute postoperative magnitude of MRCYL at the corneal plane, expressed as a percentage of the absolute preoperative magnitude of total corneal cylinder (K)).

[REDACTED]

[REDACTED]

8.0 STATISTICAL METHODS

This is a study to evaluate the safety and performance of HMTIOL in subjects undergoing cataract surgery. In general, the analyses will be provided based on available data. The mean, standard deviation, minimum, and maximum will be prepared for the continuous clinical parameters, and counts and percentages will be presented for the categorical outcomes.

8.1 SAMPLE SIZE CALCULATION

The sample size of this study is based on refinement of A-constant (lens power constant). To reduce bias due to surgical technique, unusual eyes and differences in equipment (A scan, keratometer, etc.) data will be obtained from a sufficient number of eyes such that the standard error of the mean in lens power constant is less than ±0.10mm (approximately ±0.2D). A minimum of 20 to 30 eyes from each surgeon should be adequate to achieve the tolerance. Each included subject should have a post-operative uncorrected visual acuity better than 20/40 to avoid inaccuracies in refraction.

This is a feasibility study and no hypothesis testing will be performed.

8.2 ANALYSES POPULATIONS

Subjects that are screened but disqualified based on the preoperative and intra-operative eligibility criteria will be excluded from the safety and performance data analyses. However, the reasons for the screen failure will be summarized. The analyses populations are defined below.

8.2.1 SAFETY POPULATION

The **Safety Population** includes eyes with attempted study lens implantation, (successful or aborted after contact with the eye). The intraoperative and postoperative AEs and DDs will be summarized based on the safety population.

8.2.2 IMPLANTED-EYE POPULATION

The **Implanted-Eye** Population consists of eyes with successful HMTIOL implantation. Since it is important to evaluate HMTIOL's effect on a study eyes, slit lamp examination, intraoperative pressure (IOP), and dilated fundus examination (DFE) will be based on the implanted-eye population.

Additionally, the UCDVA, BCDVA, prediction error, and meridional rotation will be evaluated based on the implanted-eye population.

8.2.3 PER PROTOCOL POPULATION

The **Per Protocol** (PP) Population contains eyes with successful HMTIOL implantations during surgeries and do not have a major protocol deviation (such as improperly enrolled in the study or lens power calculation errors) and will be considered the primary population for the analysis of performance outcomes. The performance outcomes (UCDVA, BCDVA, and prediction error) will also be evaluated based on the per protocol population.

The protocol deviations will be categorized prior to the analysis.

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

- [REDACTED]
- [REDACTED]

[REDACTED]

8.3 STATISTICAL METHODS

The data analyses will be based on the analysis populations described above. No imputation for missing data will be performed. The demographic data will be summarized based on study subjects.

For continuous outcomes, mean, standard deviation, median, minimum, and maximum will be provided. For categorical outcomes, the counts and percentages of eyes with each category level of outcomes will be summarized.

8.3.1 SAFETY OUTCOMES

8.3.1.1 ADVERSE EVENTS AND DEVICE DEFICIENCIES

Adverse events and device deficiencies will be summarized at each study visit based on the safety population. The number and percentage of eyes reported with the 3-month cumulative and persistent adverse events will be calculated. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

8.3.2 PERFORMANCE OUTCOMES

The performance outcomes will be analyzed based on the Impacted-eye Population and PP Population. The BCDVA will also be summarized based on the Best-case population as suggested by ISO.

8.3.2.1 BCDVA

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] the number and percentage of eyes reaching BCDVA 20/20 or better, 20/25 or better, 20/32 or better, 20/40 or better, and worse than 20/40 at each visit will be prepared.

[REDACTED]

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8.3.2.2 UCDVA

The proportion of eyes with UCDVA of 20/20 or better, 20/25 or better, 20/32 or better, 20/40 or better, and worse than 20/40 at each visit will be summarized at the preoperative and every postoperative visits.

8.3.2.3 PREDICTION ERROR (PE)

The MRSE prediction error will be calculated at 3 months for each implanted eye as follows:

MRSE PE = Postoperative MRSE adjusted to 6 meters – MRSE TRRE (target residual refractive error)

The MRCYL prediction error will be calculated at 3 months for eyes implanted with HMTIOL as follows:

MRCYL PE = Postoperative MRCYL adjusted to 6 meters – MRCYL TRRE (target residual refractive error)

The MRCYL PE will also be calculated based on the vector analysis approach for eyes implanted with the HMTIOL.

[Redacted text block]

8.3.2.4 MISALIGNMENT OF IOL MERIDIAN

The final rotational meridian of the IOL will be compared to the planned position. The absolute value of rotation will be described by mean, median, and maximum values.

[Redacted text block]

8.3.2.5 ROTATION OF IOL MERIDIAN

The rotation of IOL meridian will be calculated for each eye from Day 0 to every postoperative visit. The descriptive statistics for continuous variables will be used to summarize the rotation angle at each visit. The absolute value of rotation will be described by mean, median, and maximum values.

The number and percentage of eyes with rotation ≤ 5 , < 10 , < 20 , and < 30 will be calculated at each visit.

[Redacted text block]

8.3.2.6 REDUCTION IN CYLINDER POWER

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The reduction in cylinder power will be calculated for each eye implanted with the HMTIOL as follows:

$$\text{Cylinder Power Reduction} = \text{absolute value of preoperative magnitude of corneal cylinder (K)} - \text{absolute postoperative magnitude of MRCYL at the corneal plane.}$$

The percent reduction in cylinder power will be calculated for eyes with non-zero preoperative corneal cylinder as follows:

$$\text{Cylinder Power \% Reduction} = \text{Cylinder Power Reduction} / \text{absolute value of preoperative magnitude of corneal cylinder (K)} \times 100.$$

The descriptive statistics for continuous variables will be used to summarize these outcomes at each visit. [REDACTED]

The vector analyses (Eyde man¹¹) based on the cylinder power and axes will be performed. [REDACTED]

9.0 DATA MANAGEMENT

9.1 DATA QUALITY ASSURANCE

All requested information must be entered on the eCRF and confirmed through source documentation. If an item is not available or not applicable, this fact should be clearly indicated.

Data will be entered into a computer database developed specifically for this trial. During the course of the trial, queries will be generated for data points that are potentially erroneous and require appropriate clarification or correction.

9.1.1 DATA MONITORING

Periodic monitoring (either remote and/or on-site) will take place to ensure data integrity. Study monitoring involves the following elements:

Clarvista personnel, or designee, may meet with investigators prior to the initiation of the study in order to review the adequacy of the subject population, facilities, and equipment with respect to the needs of the study, and to familiarize the investigator and support staff with the study protocol.

Clarvista personnel, or designee, may meet with the investigators at the time enrollment is initiated in order to ensure that subjects are being properly selected, that the methods described in the study protocol are thoroughly understood by the investigator, and that study data are being correctly recorded.

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CarV sta personne , or des gnee, may v s t the c n ca s te at any t me dur ng the course of the study to rev ew and/or co ect comp eted case report forms. Add t ona y, te ephone consu tat on w occur as necessary dur ng the course of the study to ensure the proper progress and documentat on of the study f nd gns.

The study data w be carefu y protected, and mask ng ut zed to the extent poss b e, n order to prevent b as.

9.2 RECORD RETENTION

The nvest gator sha ma nta n a subject records for wh chever of the fo ow ng per ods s shorter:

- A per od of two years after the date on wh ch FDA approves the market ng of the dev ce
- A per od of f ve years after the date on wh ch the resu ts of the study are subm tted to the FDA n support of the market ng of the dev ce

OR

- A per od equa to the m n mum requ red by the reg ona author ty.

The Invest gator / S te must contact CarV sta as prov ded n the Protoco Contacts page pr or to d scard ng or d spos ng of any study re ated supp es or documents. The Sponsor reta ns the r ght to have a study documents sh pped (at Sponsor's expense) for arch va purposes, as an a ternat ve to d sposa .

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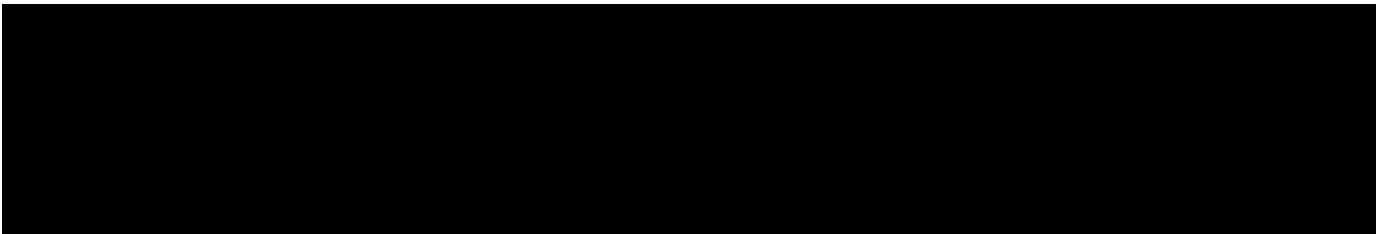
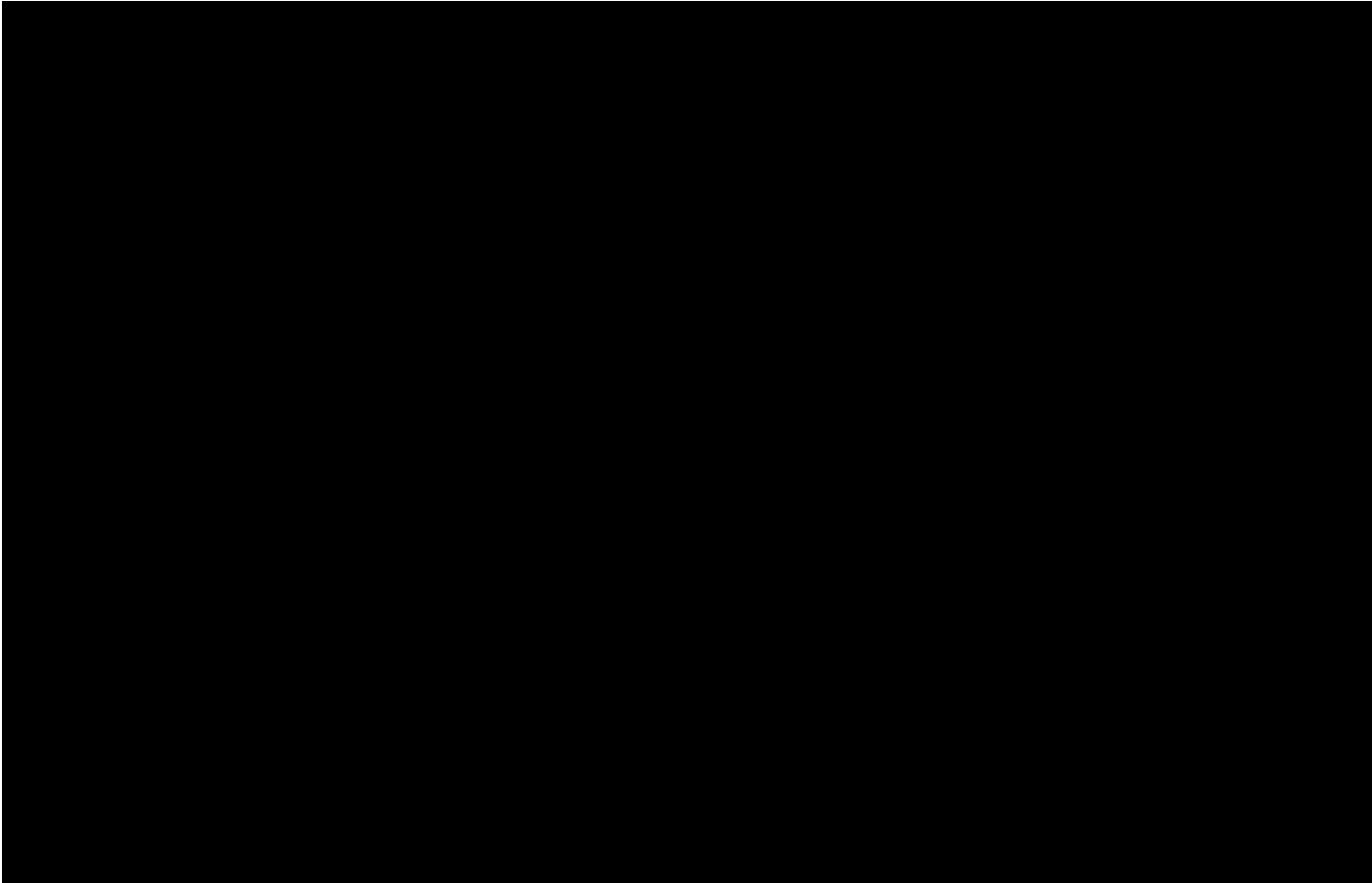
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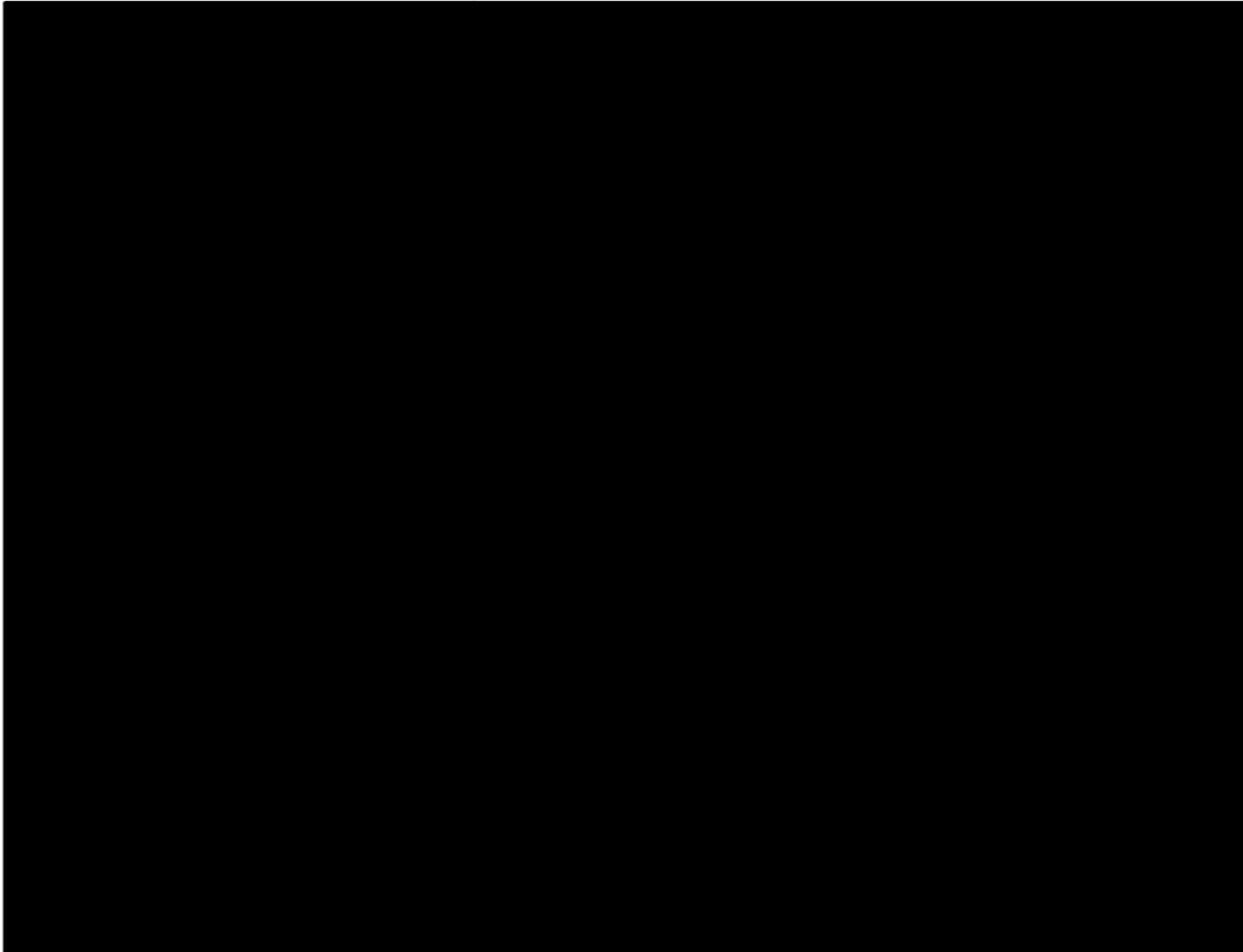
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APPENDIX A – TABLE 1: SCHEDULE OF ASSESSMENTS

Procedure/Assessment	Pre-Op Visit ¹ Day -90 to -0	Op Visit		Form 3 1 Day Visit (Day 1-2 from Day 0 of the eye)	Form 4 1 Wk Visit (Day 7-14 from Day 0 of the eye)	Form 5 1 Mo Visit (Day 30-60 from Day 0 of the eye)	Form 6 3 Mo Visit (Day 80-100 from Day 0 of the eye)
		First Eye Day 0	Second Eye (if enrolled) Day 0 (+3-30 Days from the first eye surgery)				
Informed Consent	X						
Demographics	X						
Med/Ophthalmic History	X	X	X				
Eligibility ²	X	X	X	X	X	X	X
UCDVA ³	X						
Auto and Manifest Refraction	X				X	X	X
BCDVA	X				X	X	X
Keratometry ⁴	X					X	X
Axial Length	X						
Anterior Chamber Depth	X						
IOL/Toric Power Calculation ⁵	X						
Slit Lamp Examination	X			X	X	X	X
IOP	X			X	X	X	X
Pupil Size	X	X	X				
Surgery / IOL implantation		X	X				
IOL Rotational Stability ⁶		X	X	X	X	X	X
[REDACTED]							X
Dilated Fundus Exam	X						

¹ All testing to be conducted on both eyes

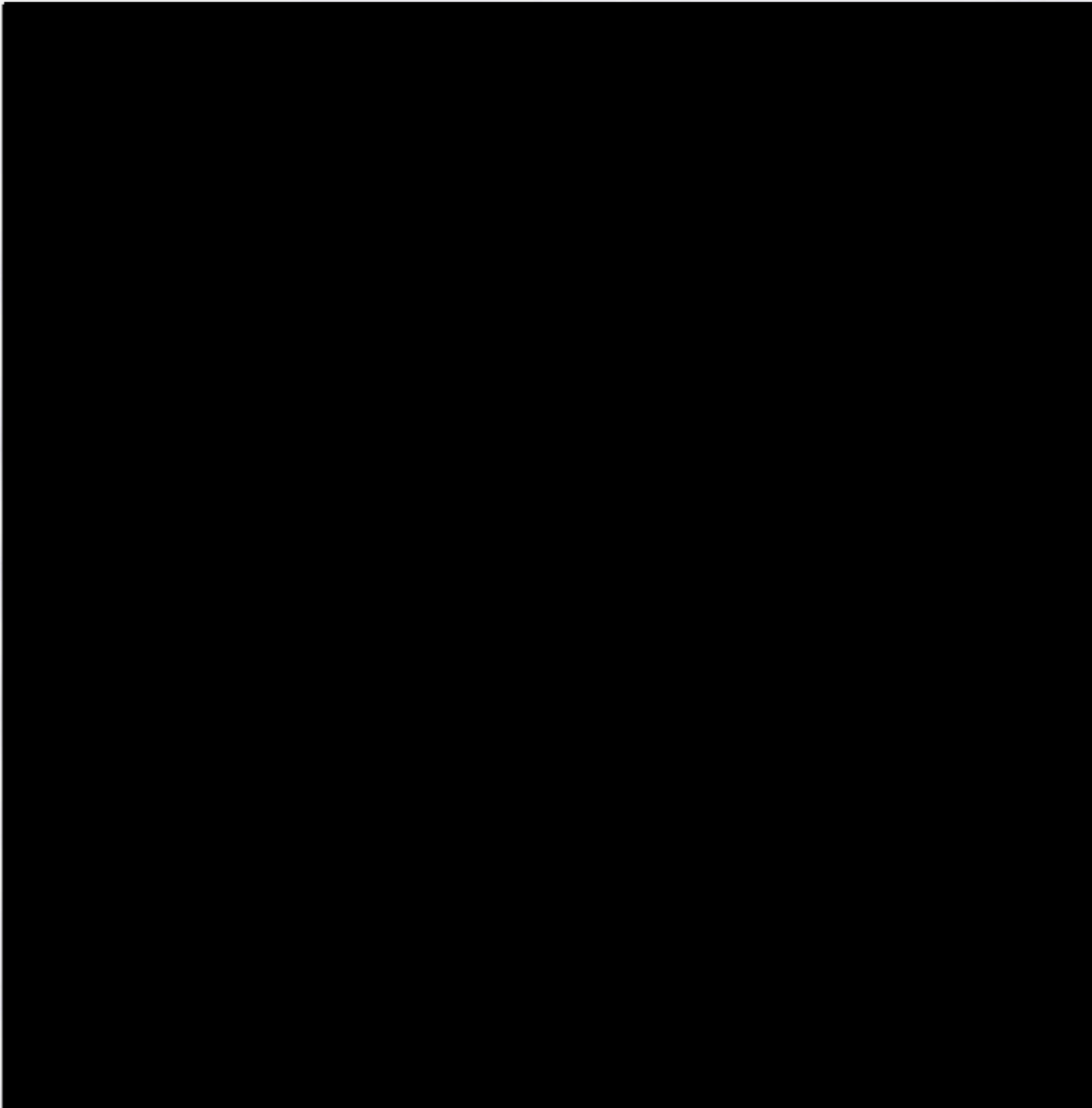
² Will include pregnancy test if applicable

³ If UCDVA is < 20/40, perform Pinhole (PH) vision

⁴ Measurements via biometry will be utilized for both calculations and data capture

⁵ To be reviewed and approved by the Sponsor

⁶ Rotational stability as assessed by Reading Center



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