



WOO UNIVERSITY

ICL(Implantable Collamer Lens) Update

Brian Boxer Wachler, MD

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WELCOME!



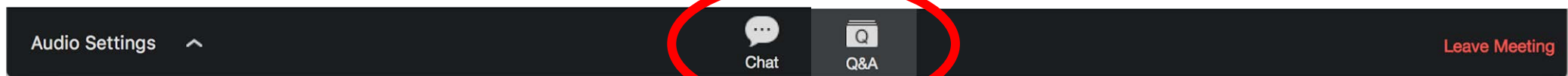
Host: Dr. Stephanie Woo

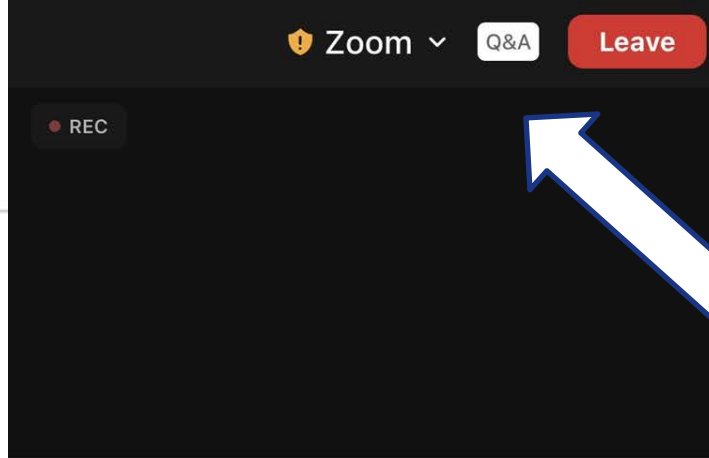


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Thank you to STAAR for supporting this event with an unrestricted educational grant.

- For a 1-hour webinar attendees must be online for a minimum of 50 minutes
- For a COPE certificate, please fill out the survey link in the chat. Also, the survey link will appear when the webinar ends.
- CE certificates will be delivered by email and sent to ARBO with OE tracker numbers
- **CE certificates will be emailed within 4 weeks**
- Ask questions using the zoom on-screen floating panel





Opportunity to Partner

Optometrists are at the frontline to recommend treatment for cataract and glaucoma patients.



Established relationships with patients

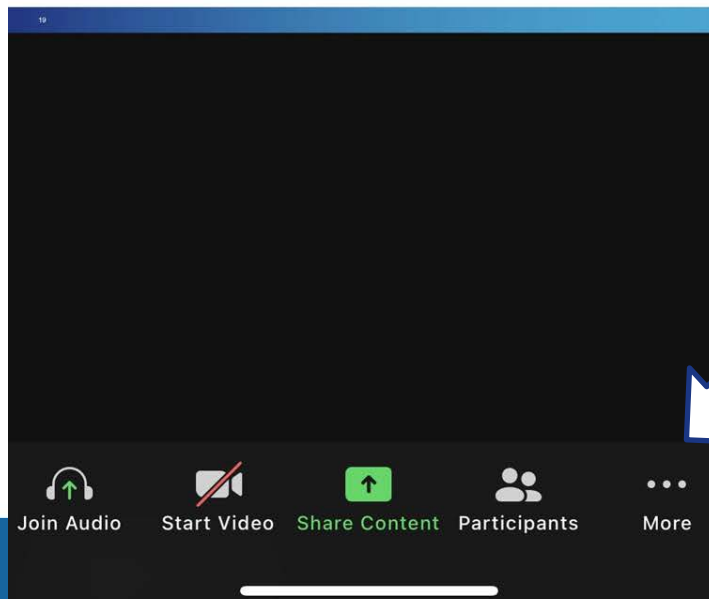
- › Ability to inform patients of the best technologies available
- › Needs, wants, expectations, and lifestyle

Reduce patient and physician burden

- › Cost/pharmacy visits and prior authorizations
- › Ocular surface disease and potential effects on visual acuity

Ability to impact patients' post-operative lifestyle

- › ONE TIME opportunity during cataract surgery to address a patient's cataract, refractive needs (astigmatism and presbyopia) as well as their glaucoma



Speaker Bio – Dr. Brian Boxer Wachler

Dr. Brian Boxer Wachler, commonly known as “Dr. Brian” by his patients, is a Corneal Ophthalmologist located in Beverly Hills, California. He has a private practice and is also on-call as an ER doctor at Cedars Sinai Medical Center.

Although he performs over 12 types of eye procedures, Dr. Brian’s passion lies in treating Keratoconus patients. He is not only the first doctor to perform Intacs for Keratoconus in North America, but also Corneal Collagen Crosslinking. He invented Holcomb C3-R Crosslinking in 2003 and has saved the eyesight of thousands of patients world-wide.

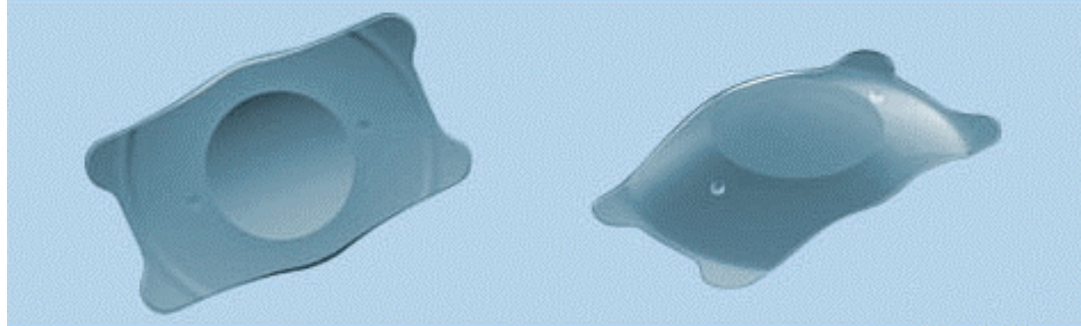
Dr. Brian enjoys spending time with his wife and twin daughters, traveling, and rowing.



Financial Disclosures

- Nothing to Disclose

Implantable Collamer Lens (ICL)



- No maintenance, implantable contact lens. Over 1 million performed worldwide
- Corrects visual problems for myopia and astigmatism
- Customizable lens that is placed behind the iris and in front of natural lens
- Lens focuses light on retina in a similar way as contacts or glasses
- Transmits light & reduces reflections that can interfere with vision
- Procedure takes about 10 minutes per eye
- Sterile environment
- Topical numbing drops and pain medication given. No anesthesia necessary
- Office-based procedure

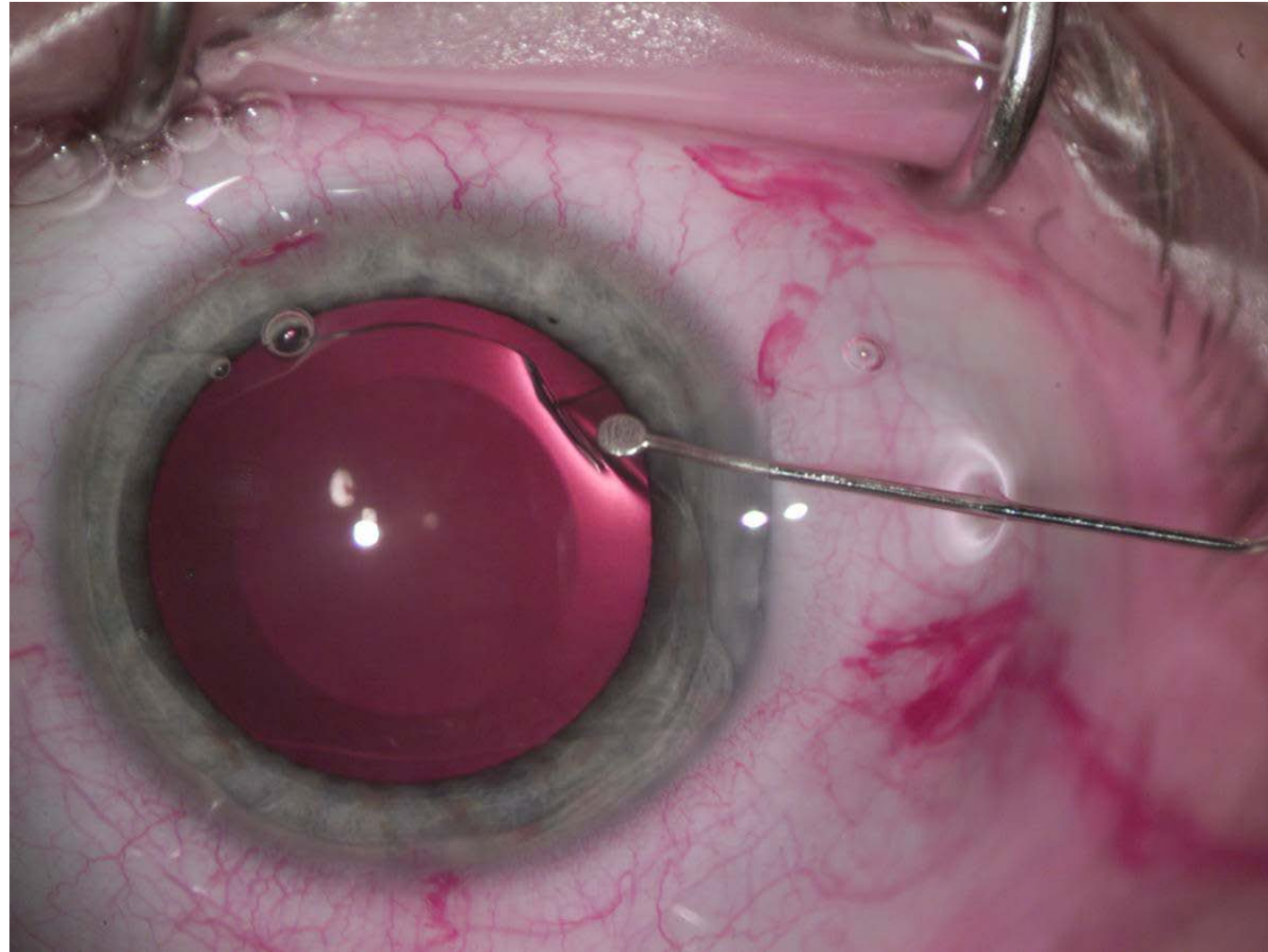
Laser Iridotomies



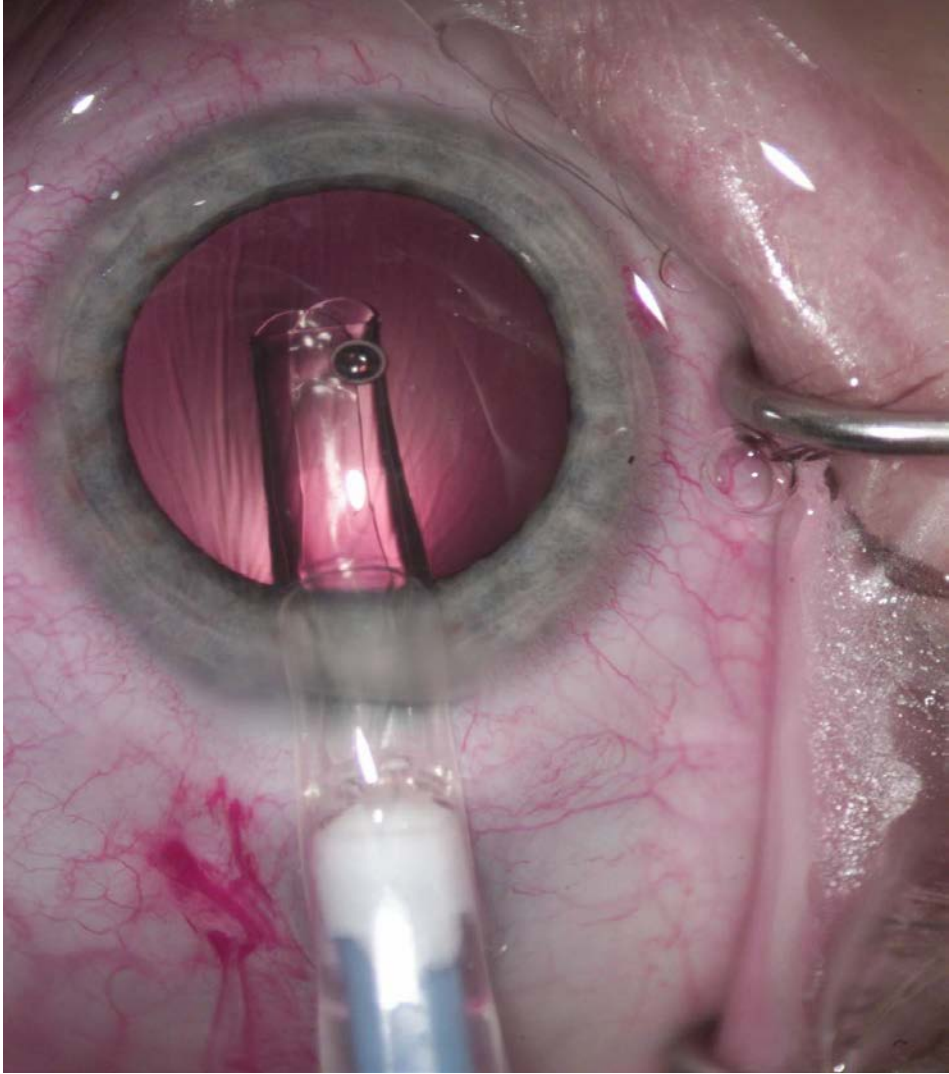


Visian ICL™ Positioning

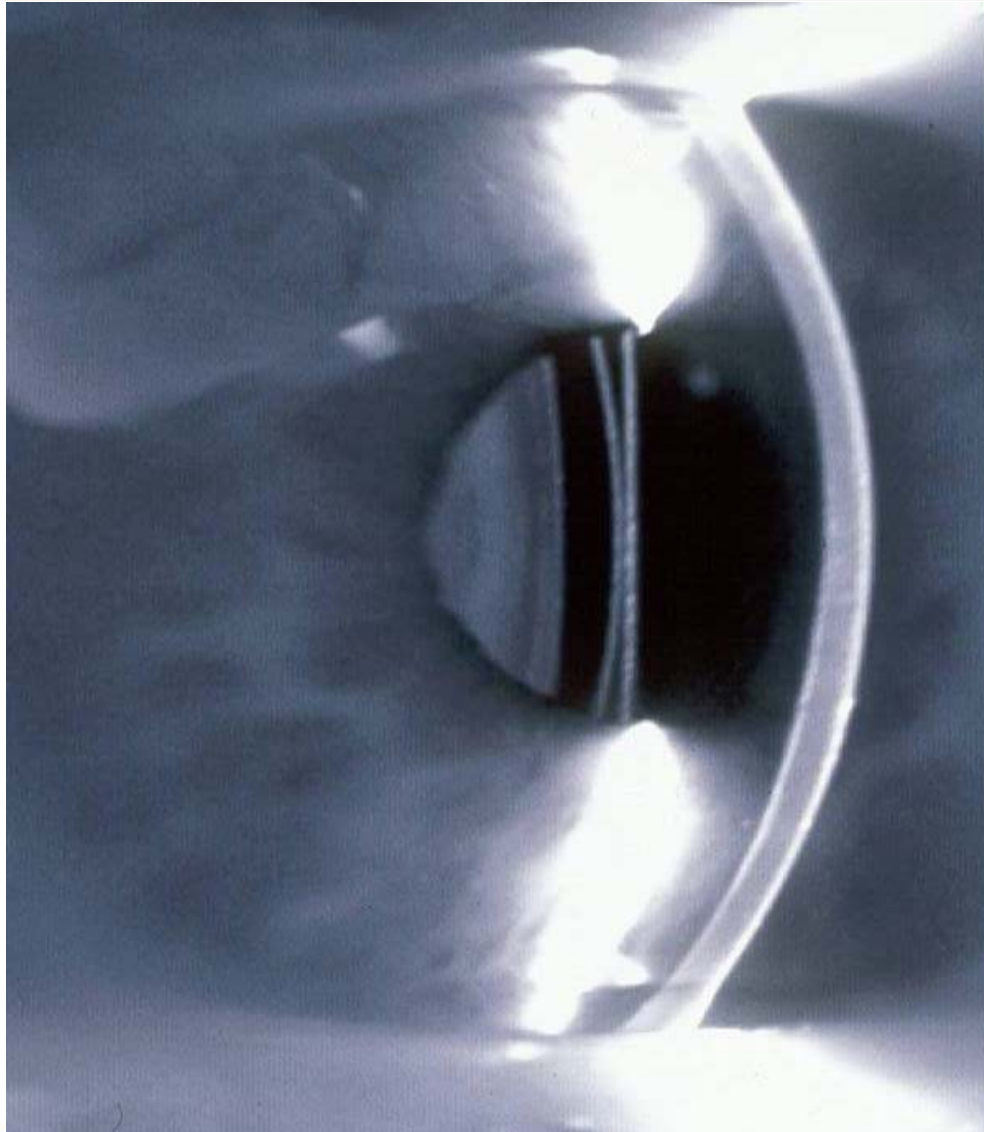
Paracentesis



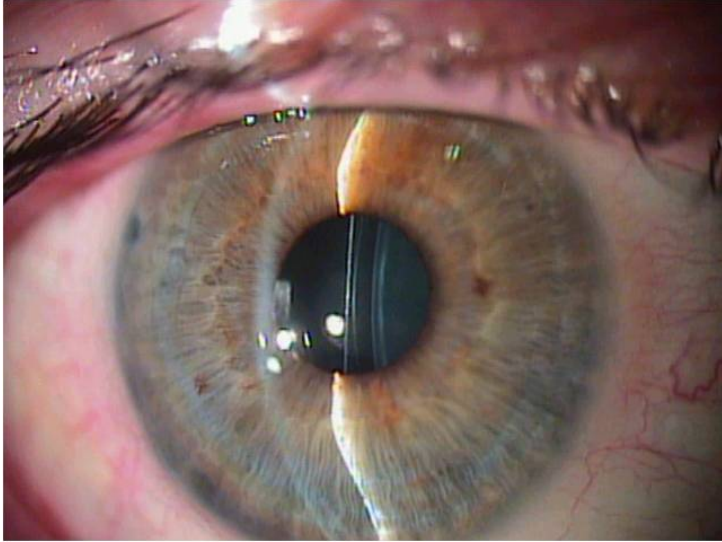
ICL Injection



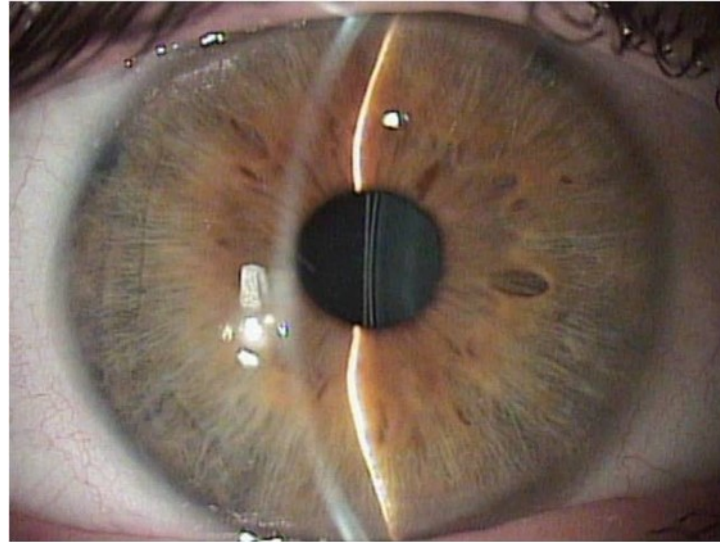
Visian ICL™ Scheimpflug



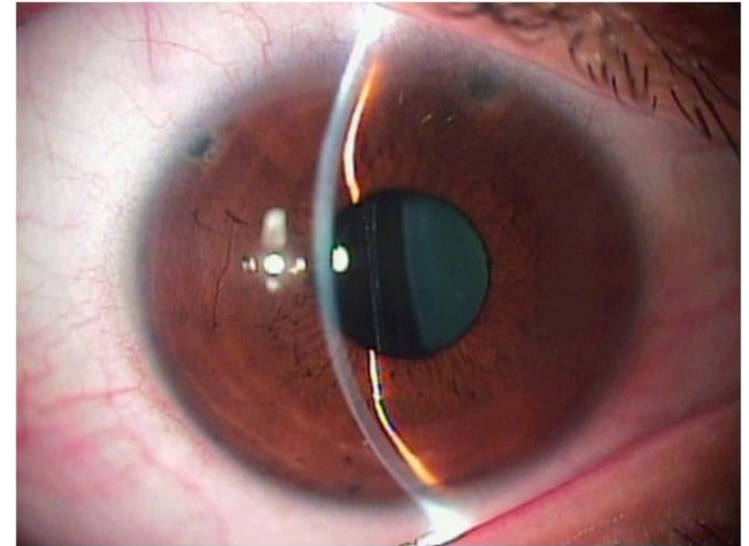
SLIT LAMP VAULTS



**NORMAL
VAULT**

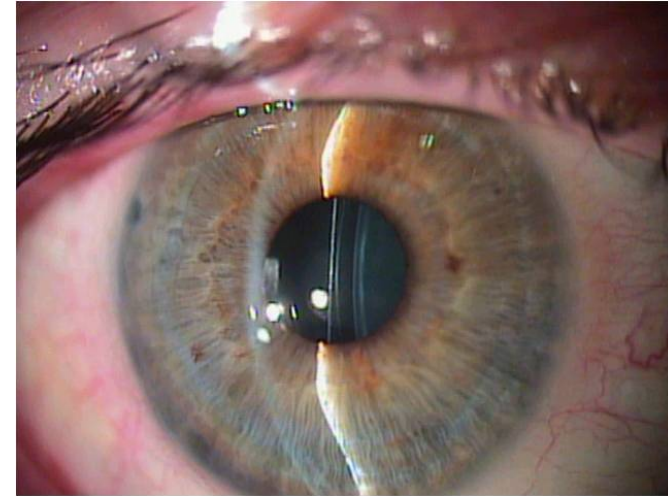


**SHALLOW
VAULT**



**HIGH
VAULT**

- Ideal vault is **up to approx. 1,000 μm**
- Compare the corneal thickness to the vault of the Visian ICL
 - Assuming the avg. corneal thickness is 500 μm
 - Desired vault is less than a half the corneal thickness to twice the corneal thickness
- **How to Measure**
 - The angle between the oculars and light source should be 30 to 45 degrees
 - Use bright illumination
 - Move focus from the cornea to the ICL to the Vault Space to assess the vault measurement



Video of ICL Procedure



Compare to LASIK

- Residual stromal bed 250-300
- Consider patient's age - Enhancements in future
- Risk of ectasia

Odds Ratio of ectasia if PTA > 40%
= 223

(OR = 73 for RSB < 300)

PTA 40%



A = Ablation + Flap

B = Residual Stromal Bed

C = Total Corneal Thickness

$$PTA = A / C$$

Dr. Brian Performing Live On the Today Show



STAAR Visian ICL™



Top: Black Eyed Peas' member,

POP STAR'S AMAZING RECOVERY
BLACK EYED PEAS STAR GETS VISION BACK

Black Eye Peas Star Gets Visian ICL



April 9, 2010 - **Gold Medalist Bobsled driver Steven Holcomb** and **World Keratoconus Expert Dr. Brian Boxer Wachler** appeared on Dr. Phil's The Doctors daytime television show, Dr. Brian made the announcement of the name modification of "C3-R" to "Holcomb C3-R" to honor Steven



Visian ICL™ in the Military



The U.S Military has chosen the Visian ICL because they want them to be able to have the best vision in the harshest conditions

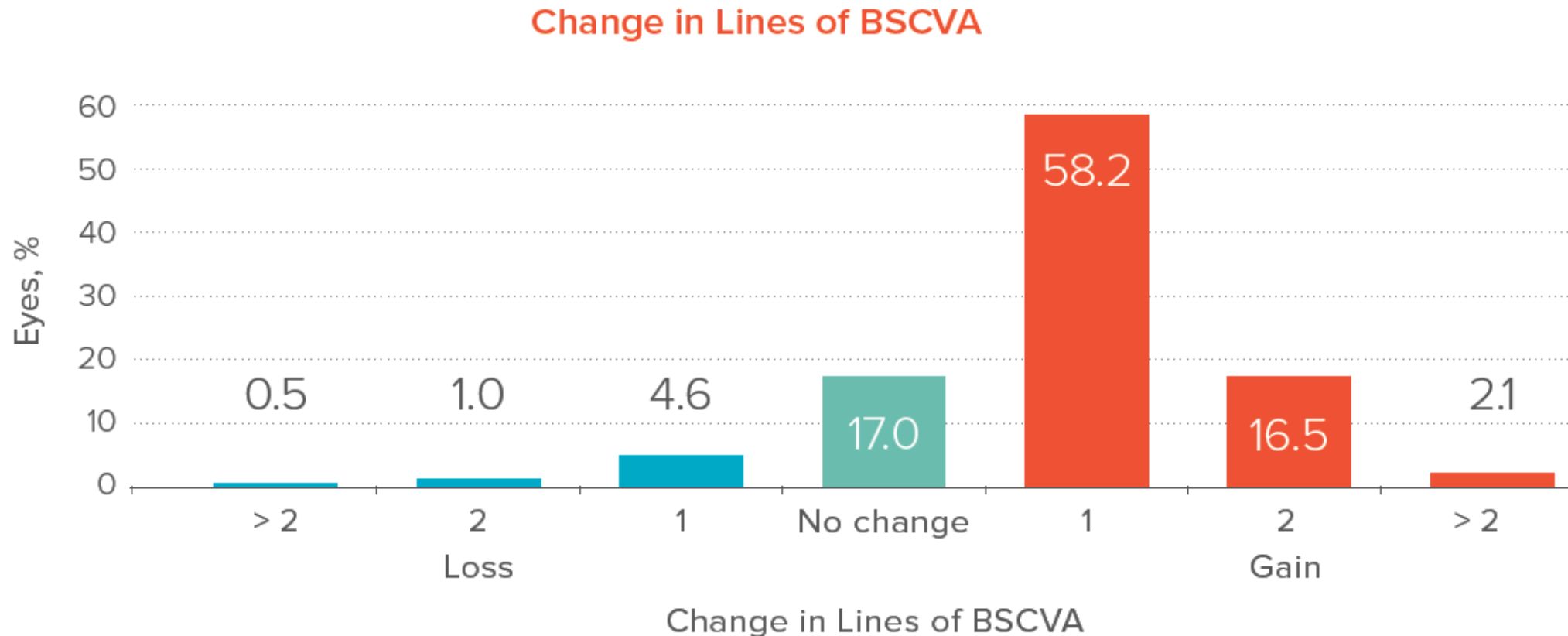
More than 98% of patients had 20/20 or better

100% were able to see better after surgery than with their contacts or glasses

100% believe they can function & perform better!

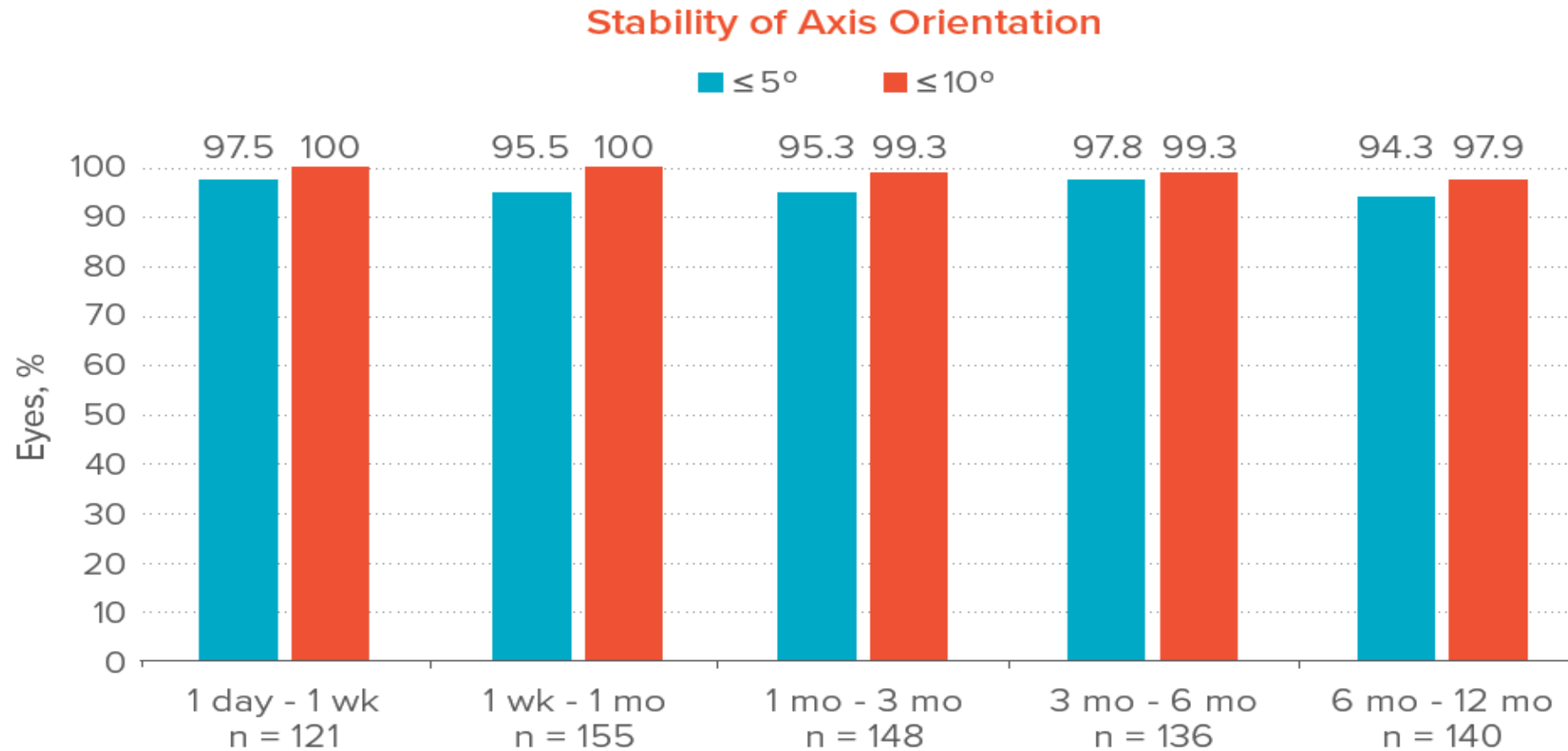


VISIAN TORIC ICL – FDA STUDY: CHANGE IN BSCVA



94% of eyes maintained or gained 1 or more lines
& **77%** of eyes gained 1 or more lines of BSCVA

VISIAN TORIC ICL – FDA STUDY: ROTATIONAL STABILITY

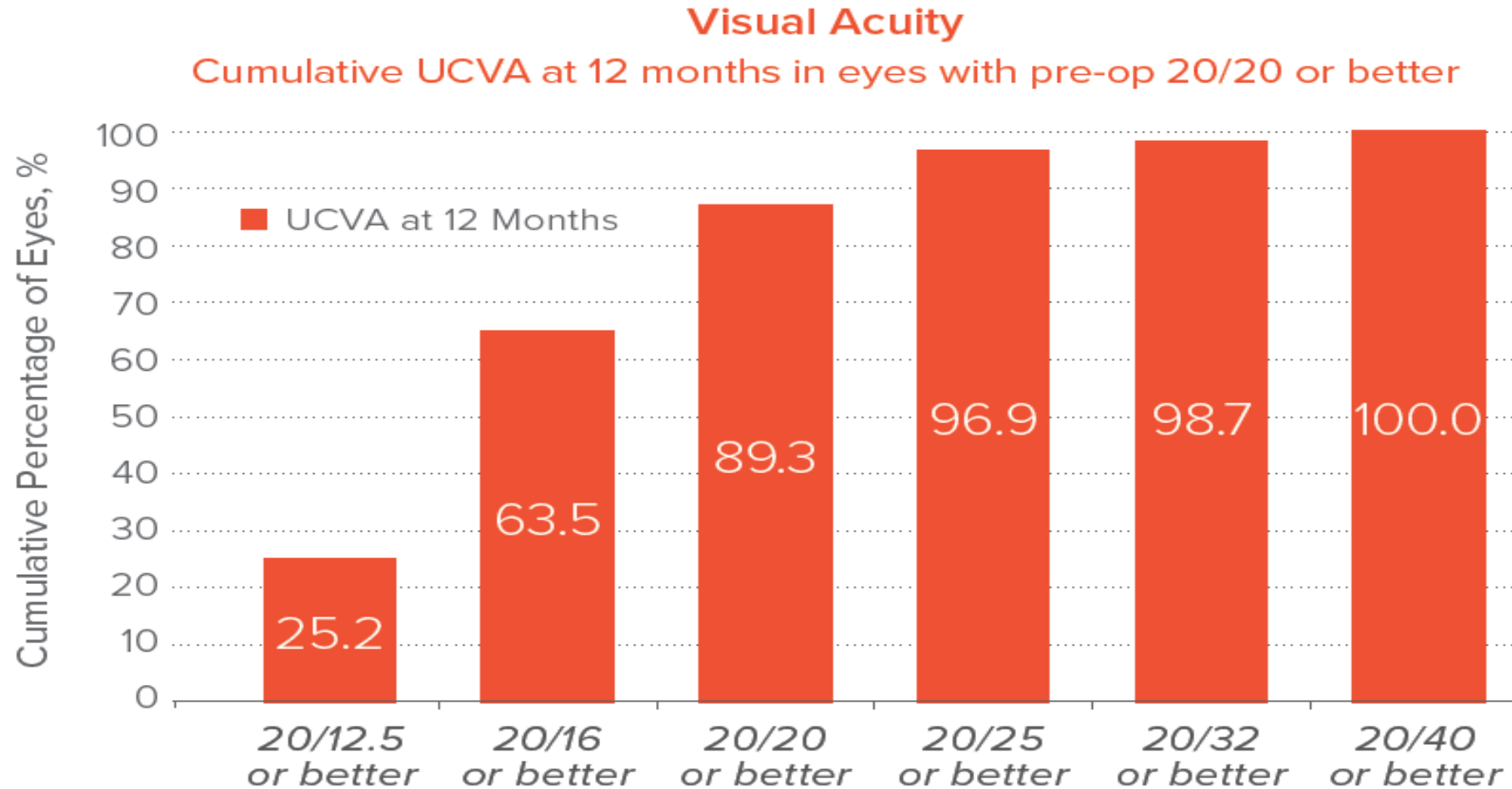


Over 94% of eyes maintained rotational stability of $\leq 5^\circ$
at all post-op time points

Of 210 eyes implanted with the Visian Toric ICL...
only 1 eye required surgical repositioning

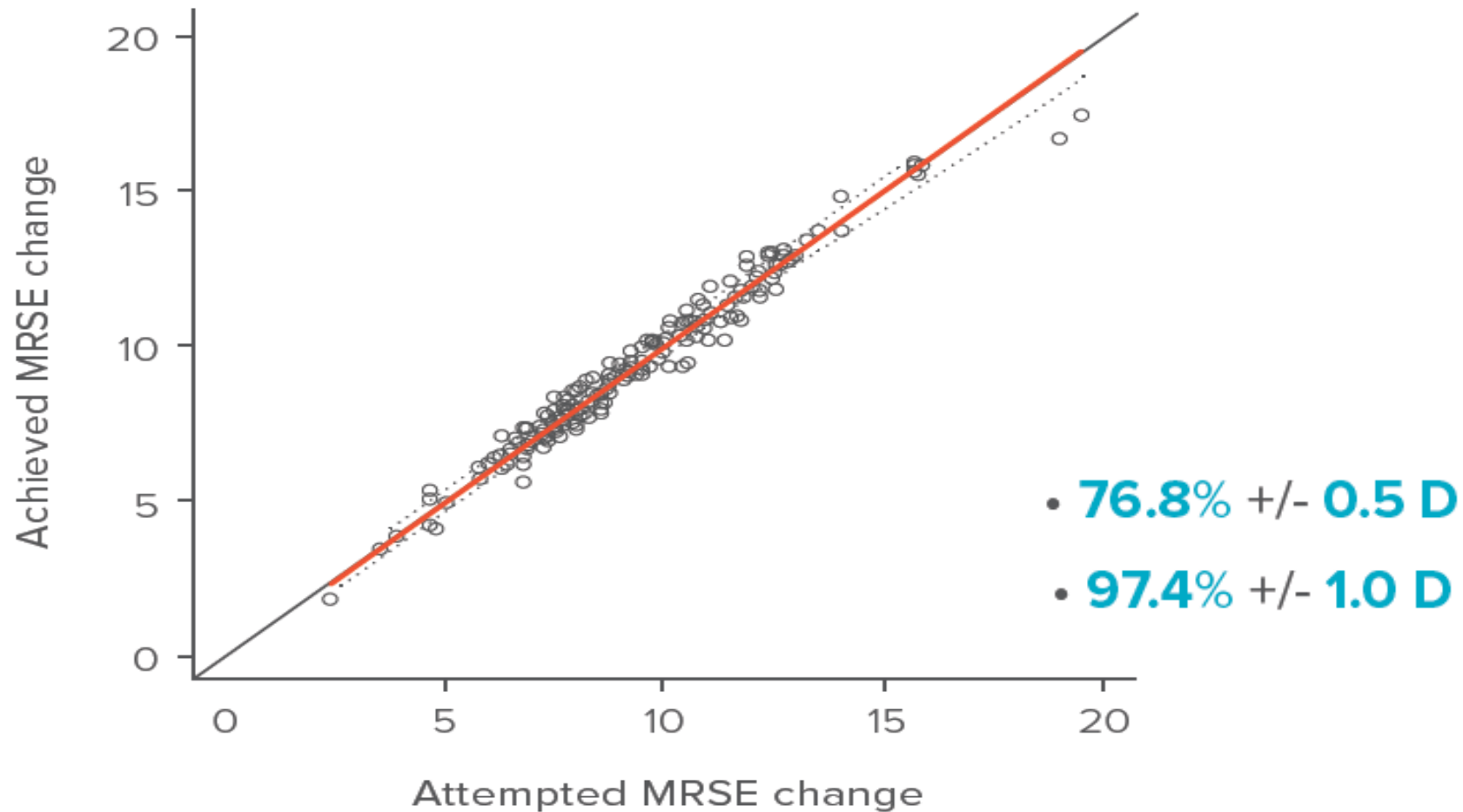


VISIAN TORIC ICL – FDA STUDY: EFFECTIVENESS DATA

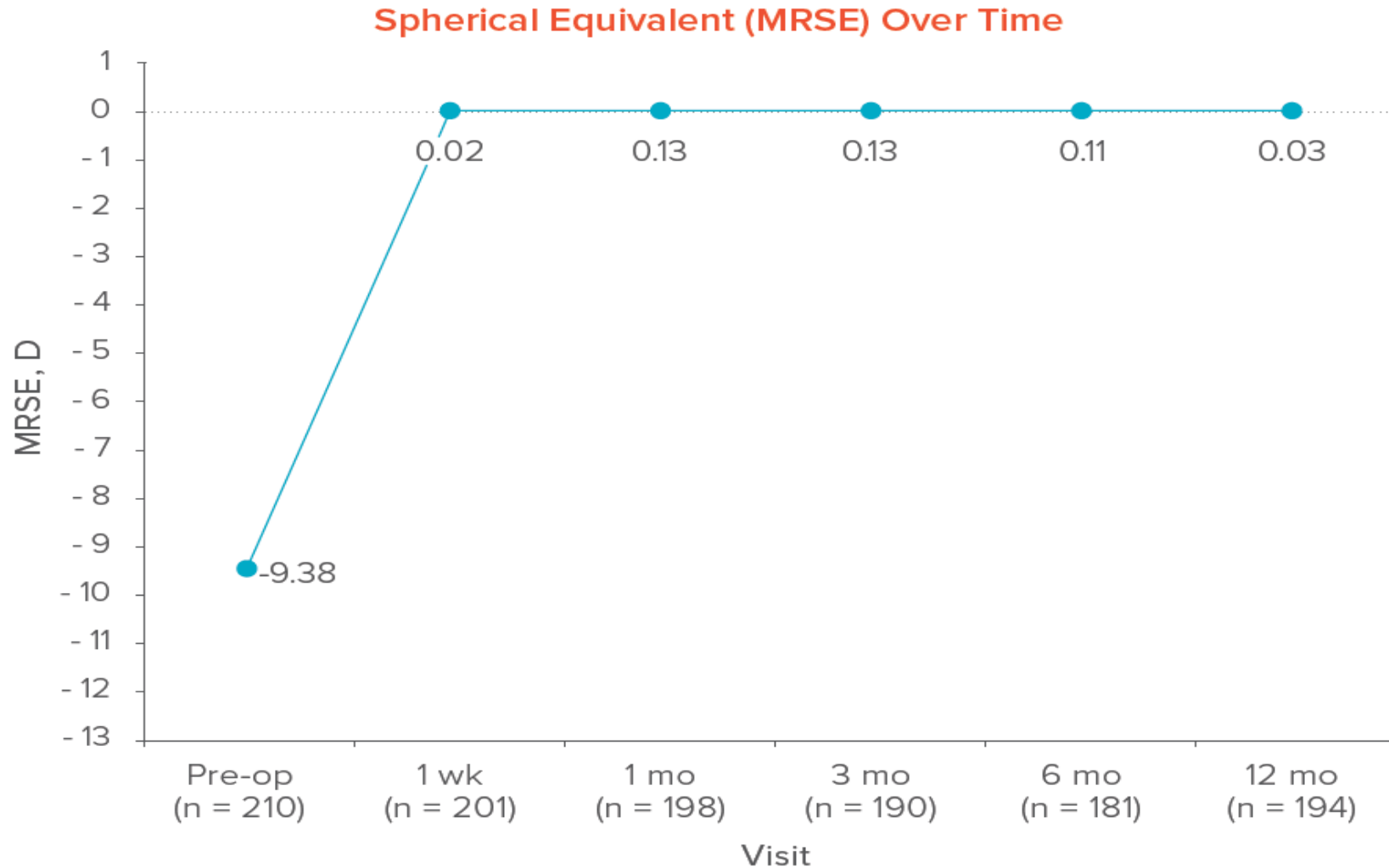


VISIAN TORIC ICL – FDA STUDY: EFFECTIVENESS DATA

Spherical Equivalent Attempted vs. Achieved

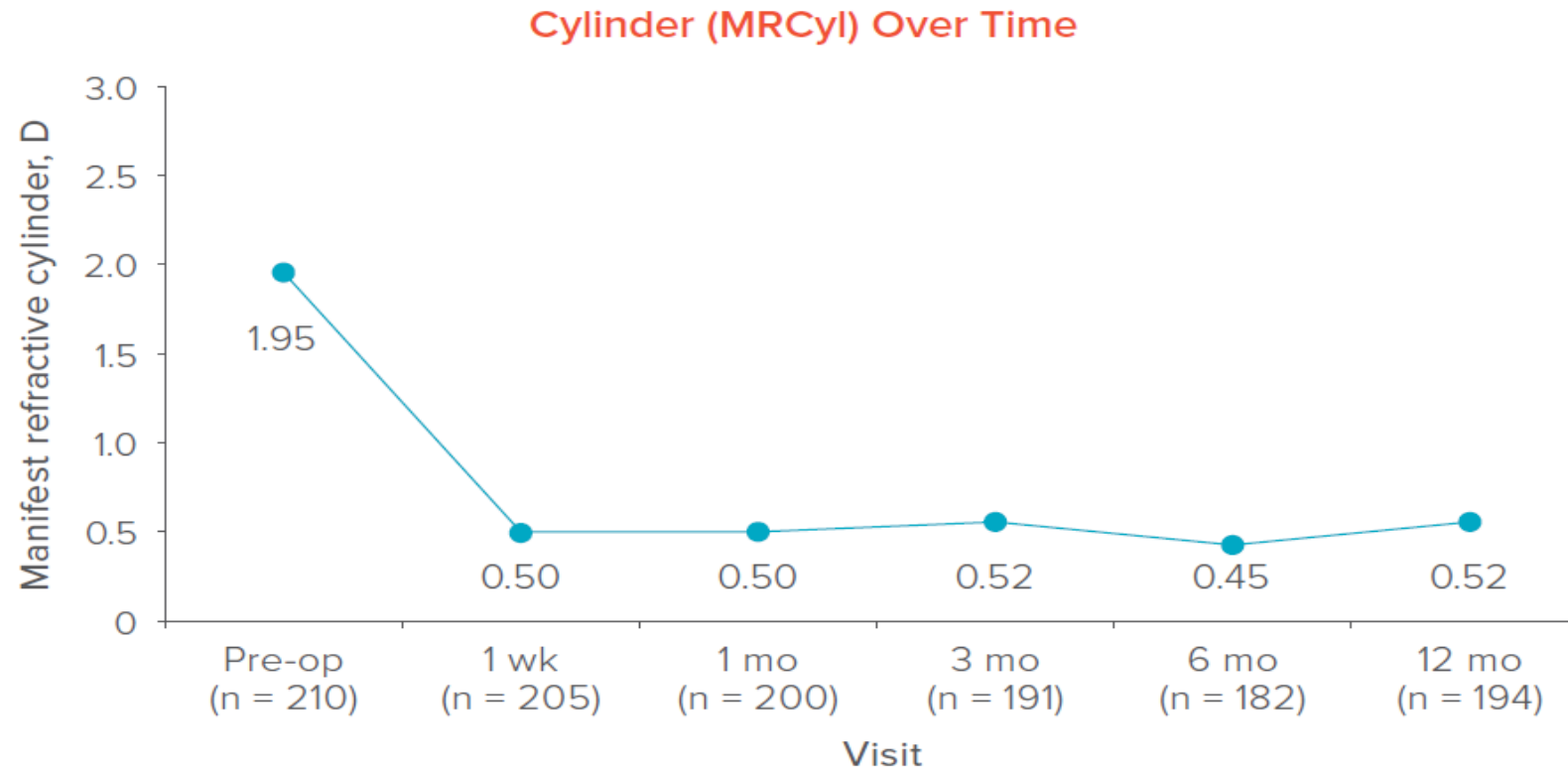


VISIAN TORIC ICL – FDA STUDY: EFFECTIVENESS DATA



VISIAN TORIC ICL – FDA STUDY: EFFECTIVENESS DATA

Visian Toric ICL allows rapid and stable achievement of outstanding MRSE and MRCyl



Benefits of Visian ICL

- Non-Lasik candidate with dry eye and/or thin corneas may be a candidate
- Some Keratoconus patients may benefit – custom tailor expectations
- Toric ICL can accommodate astigmatism
- Patient satisfaction rate over 99%
- Built-in UVA & UVB protection
- Biocompatible & made of collagen
- Reduces glare/halo
- Removable, reversible, invisible
- Does not remove corneal tissue
- Quick recovery, easy out-patient procedure
- Excellent quality of vision



High Quality of Vision – “HD Vision”



IDEAL VISIAN ICL PATIENT

- Age: 21 to 45 (over 45 is off label)
- Visian & Visian Toric ICL: Correction or reduction of myopia -3.0 D to -20.0 D with cylinder range up to 4.5 D
- Stable Refraction
 - Within 0.5 D for 1 year
- Anterior Chamber Depth of 3.0 mm or greater
- Other considerations for those with
 - Thin Corneas
 - Dry Eye Syndrome
 - Large Pupil Size



Co-Management of ICL

Preop

- Manifest Refraction & BCVA
- Slit Lamp Findings
- Contact Lens Over-Refraction
- Power of Contact Lens Used for Over-Refraction
- IOP
- Dilated Fundus Exam

Post Surgical Care

1 day postop: VA & IOP

1 week & 3 month postop: VA, MRX, Topography, IOP

Postop Medications: (varies per doctor)

Antibiotic

Anti-Inflammatory

Diamox Or Alternative To Stabilize Eye Pressure

Co-Management of ICL (continued)

What To Look For

- 1 day postop, fluorescein for wound leak
- 1 day postop, IOP check
- In first week, severe pain, redness and reduced vision could be infection

Specialty Keratoconus Contact Lens Fittings

- Wait **2 Weeks** for all types of contact lens fittings (soft, scleral, RGP, hybrid)



Contraindications

- Uncontrolled Glaucoma
- Iritis
- Diabetic Retinopathy
- Pregnancy
- Uncontrolled Vascular Disease
- Uncontrolled Blepharitis
- Sickle Cell Disease
- Etc.

Risks

- Loss of BCVA
- Irregular corneal healing
- Epithelial ingrowth
- Anisometropia
- Glare/Halos
- Cataract
- Endothelial Cell Loss
- Ptosis
- Movement of Lens, Etc.

ESTABLISHED SAFETY PROFILE*

Adverse Events Mean Follow-up 7.25 +/- 1.6 Y (Range = 5 to 9 Y)	Cumulative Incidence Rates ¹	Comments
Clinically Significant Anterior Subcapsular Opacities (ASOs)	1.8%	281 eyes
Endothelial Cell Loss	7.8%	Mean preop age 30 +/- 4.5 Y
Ocular Hypertension Requiring Intervention	0.7%	Mean preop spherical equivalent -8.74 +/- 2.27 D
Safety Index	1.20 +/- 0.26	Safety index is defined as the ratio between the mean postop BSCVA and the mean preop BSCVA

*Data presented is for the spherical Visian Implantable Collamer Lens.

1. Lee J, Kim Y, Park S, et al. (2015) Long-term clinical results of posterior chamber phakic intraocular lens implantation to correct myopia. *Clinical and Experimental Ophthalmology*, doi: 10.1111/ceo.12691.

Importance of an Optometrist's Role in Management of ICL

- Provide options other than LASIK so patients are not surprised or apprehensive if not a candidate. We often see this if patients are not informed.
- Risk assessment for ICL vs. LASIK, and if LASIK potential harm (thin corneas, Keratoconus, dry eye)
- Provide pre- and post-surgical care
- Manage any possible problems that may occur
- Provide glasses or contact lens fittings/management for patients who may still need after ICL
- Provide realistic expectations
- Build trust with your patients
- Become a “one-stop shop” where patients can receive regular eye exams, glasses/contacts, and co-management for multiple surgery options
- Continuing education to provide patients with best options for their individual needs

Conclusions

*ICL is my first line recommendation for myopia
> 6 D – “HD vision”*

ICL is HIGHLY recommended & trusted by
doctors and U.S military

ICL has a HIGH success & satisfaction rate of
over 99%

1 day recovery, in office, both eyes same time

Wide range of patients who can benefit

Optometrists play an IMPORTANT role!





Thank you! Please join us for our next COPE event

The poster features the Woo University logo and the event title 'SCLERAL LENS SOIREE' in large, bold letters. Below the title, it states 'Cost: FREE'. A section titled 'Speakers' in a cursive font shows six headshots of the speakers: Dr. Karen Carrasquillo, Dr. Andrew Biondo, Dr. Greg Denaeyer, Dr. Elise Kramer, Dr. Christine Sindt, and Dr. Clarke Newman. A larger headshot of the host, Dr. Stephanie Woo, is positioned on the right side of the poster. The date and time are listed as 'Sunday October 24 8:00 am - 3:00 pm PST'. The background is a dark blue with a light blue arrow pointing upwards and to the right.

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SCLERAL LENS SOIREE
Cost: FREE

Speakers

Dr. Karen Carrasquillo, Dr. Andrew Biondo, Dr. Greg Denaeyer, Dr. Elise Kramer, Dr. Christine Sindt, Dr. Clarke Newman

Host: Dr. Stephanie Woo

Sunday
October 24
8:00 am - 3:00 pm PST

Date: October 24, 2021

Time: 8:00 AM PST

Speakers: Dr. Karen Carrasquillo, Dr. Andrew Biondo, Dr. Greg Denaeyer, Dr. Christine Sindt, Dr. Elise Kramer, and Dr. Clarke Newman

Topic: Scleral Lens Soiree

COPE: Six hours live CE

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