

SUS EYE

Disclosures

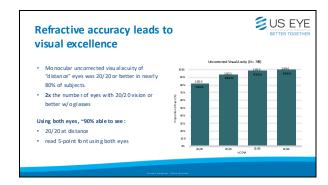
- Alcon (C,S)
- Johnson and Johnson (C,S)
- RxSight (C,S)
- OysterPoint (S)
- Dompe (S)
- SUN Pharmaceutical (S)
- Harrow (C)
- W.L. Gore (C)

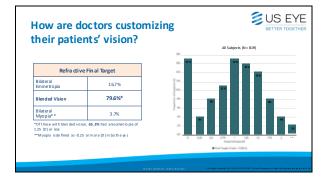
SUS EYE The World's First Adjustable Intraocular Lens Patie nt driven b ino cul ar o utco mes with 90% achi eving 20/20 & J2 1 High quality vision with no reduction in contrast or increased glare and halo (relative to a mono fo cal IOL) Higher practice r even ue and pro fits Delive rs LASIK Level-Level Refractive O utco mes Empowers a wide group of patients and doctors

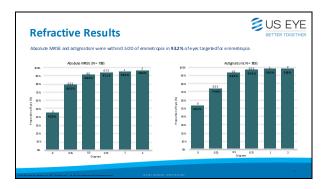


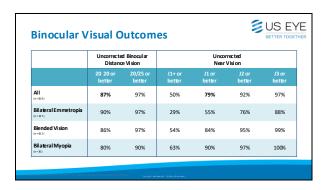






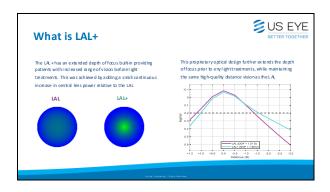






History of Prior Ref	ractive Surgery	
N	576	213
Median Monocular UCDVA	20/20	20/20
Mean Absolute MRSE	0.21 D	0.23 D
Mean Asti gmatis m	0.20 D	0.23 D
Median Monocular BCDVA	20/20	20/20





LAL+ Data — What's the advantage? Clinical Study Results of Patients Patients Bil aterally Implanted with LAL+ Binocular uncorrected visual acuity After all treatments with the LDD Binocular Uncorrected Distance Vision 20/20 or 20/25 or 31+ or 31 or 22 or 33 or Near Vision Blended Vision Blende





Managing the Panoply of Premium 10Ls

Michael E. Snyder, MD

Clinical Governance Board, Cincinnati Eye Institute/CVP Physicians Co-chair, EyeCare Partners Medical Executive Board, Research Committee Professor of Ophthalmology, University of Cincinnati

Disclosures

- Alcon: Research
- Beyonics: Consultant
- DORC: Consultant
- Gore: Consultant
- Haag-Streit: Consultant
- Humanoptics: Consultant, Royalties
- Johnson & Johnson Vision: Research
- Plexitome: Research
- VEO Ophthalmics: Board member,
 Royalties (TKP)

Why is "premium" adoption by docs incomplete, after over 20 years?

- Inertia
- Fear of optical aberrations
- Discomfort talking about self pay services (varies by country/ province)
- Fear of the "unhappy patient"
 - Presbyopia is the #1 complication of cataract surgery
 - How about TORIC IOLs? (Approved in the US in 1998)

Premarket Approval (PMA) FDA Home Medical Devices Databases



510(k) | DeNovo | Registration & Listing | Adverse Events | Recalls | PMA | HDE | Classification | Standards CFR Title 21 | Radiation-Emitting Products | X-Ray Assembler | Medsun Reports | CLIA | TPLC

New Search Back to Search Results

Note: this medical device has supplements. The device description/function or indication may have changed. Be sure to look at the supplements to get an up-to-date information on device changes. The labeling included below is the version at time of approval of the original PMA or panel track supplement and *may not represent the most recent labeling*.

Device CRYSTALENS MODEL AT-45 ACCOMMODATING POSTERIOR

CHAMBER INTRAOCULAR LENS (IOL)

Generic Name Lens, intraocular, accommodative

Regulation

Number <u>886.3600</u>

Bausch & Lomb, Inc.

Applicant 50 Technology Drive

Irvine, CA 92618

PMA Number P030002

Date Received 01/24/2003

Decision Date 11/14/2003

Product Code NAA

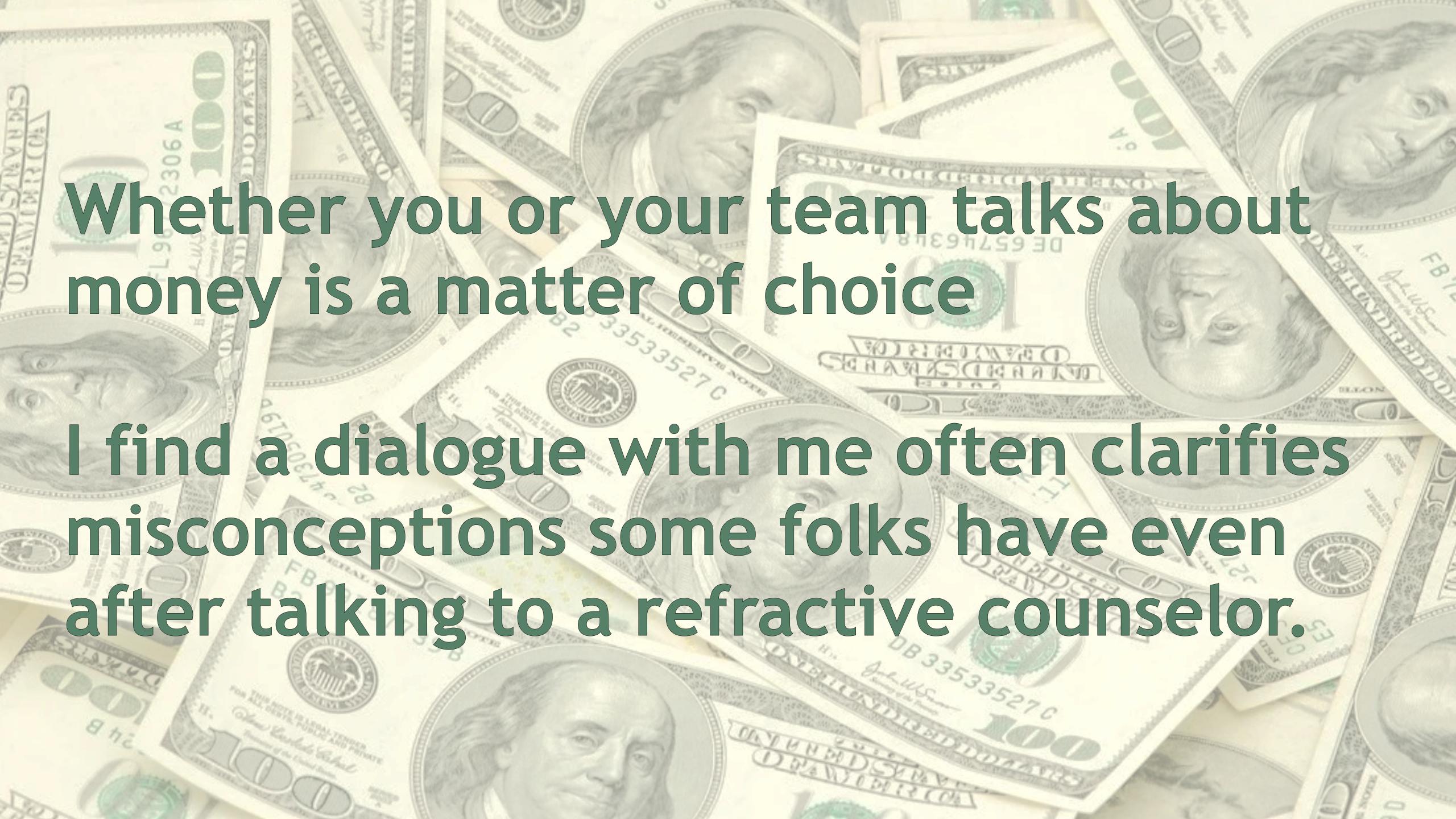




I feel very comfortable talking about money with patients



(But I think about it as helping them choose what they think is best for them, without making them feel bad)



Johnson and Johnson Vision

• Tecnis Odyssey, Symfony, Synergy, Eyehance

Alcon

Clareon Vivity & Panoptix

Bausch & Lomb

• Aphthera, Envista Aspire, Crystalens, Envista Envy

RxSight

• LAL, LAL+

Rayner

- RayOne
- Sulcoflex Trifocal

Current "Premium" IOL Landscape in the US:

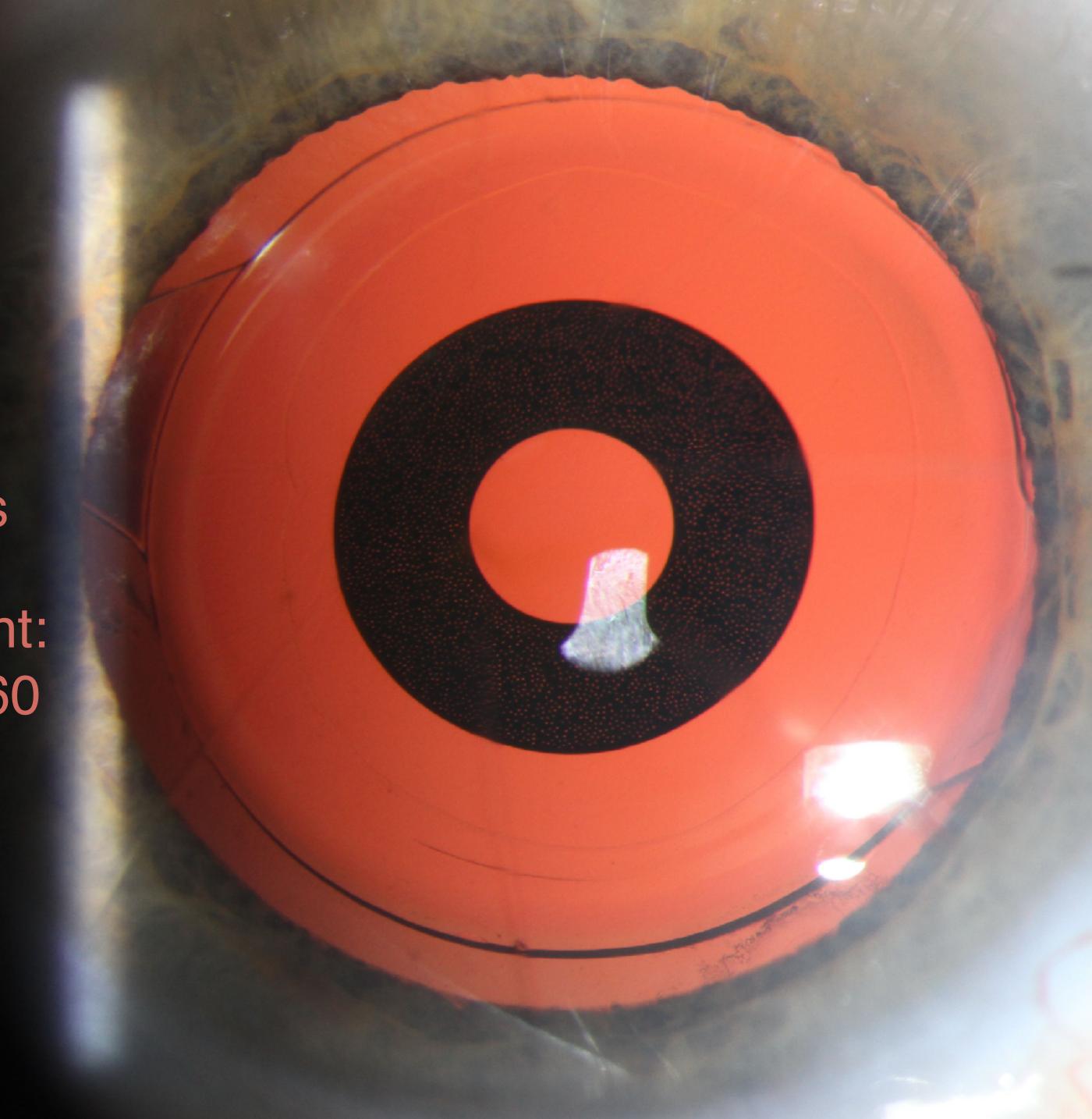
Toric Plus Others

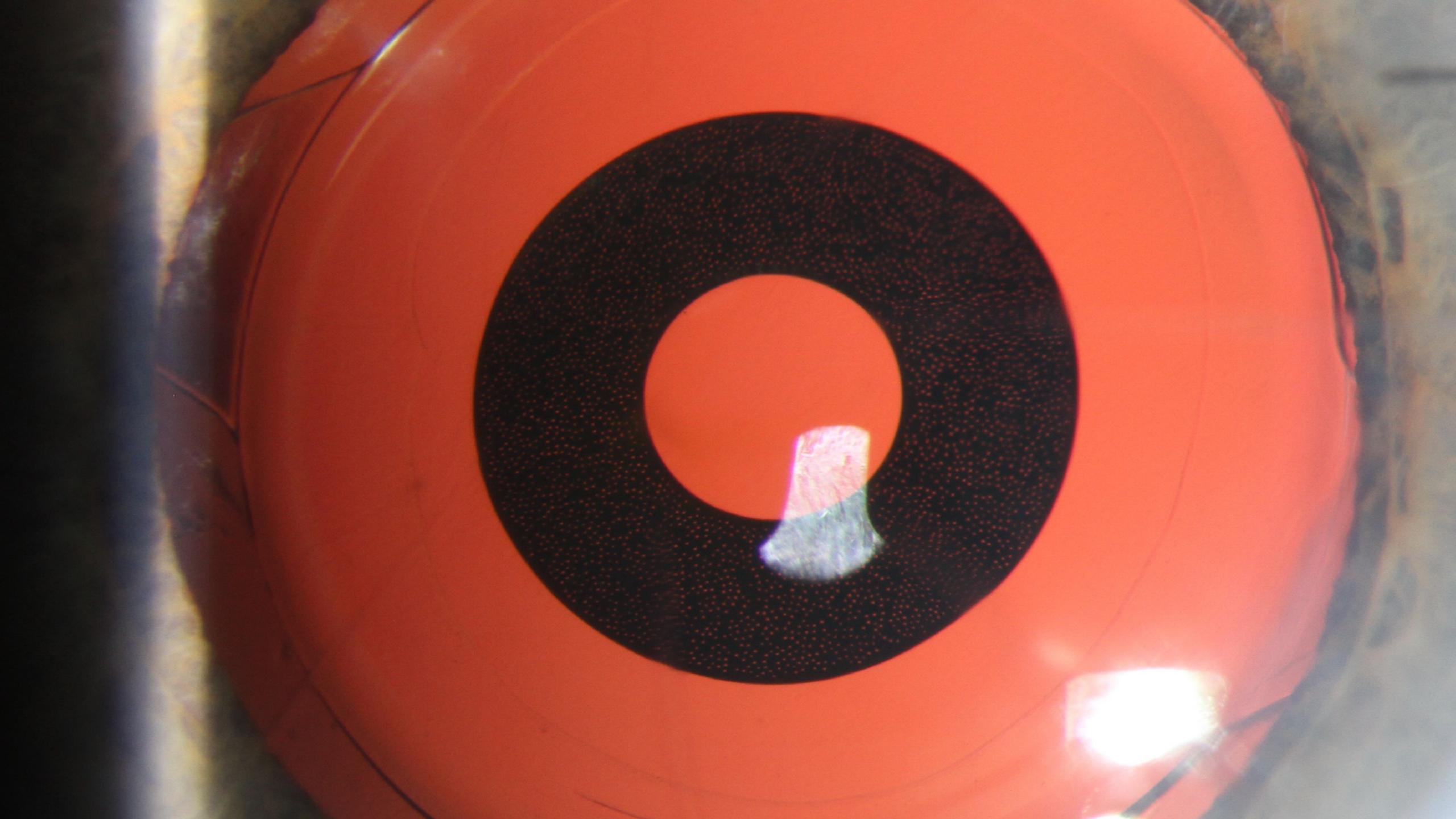
Pinhole Implants

Apthera IC-8 is now commercially available

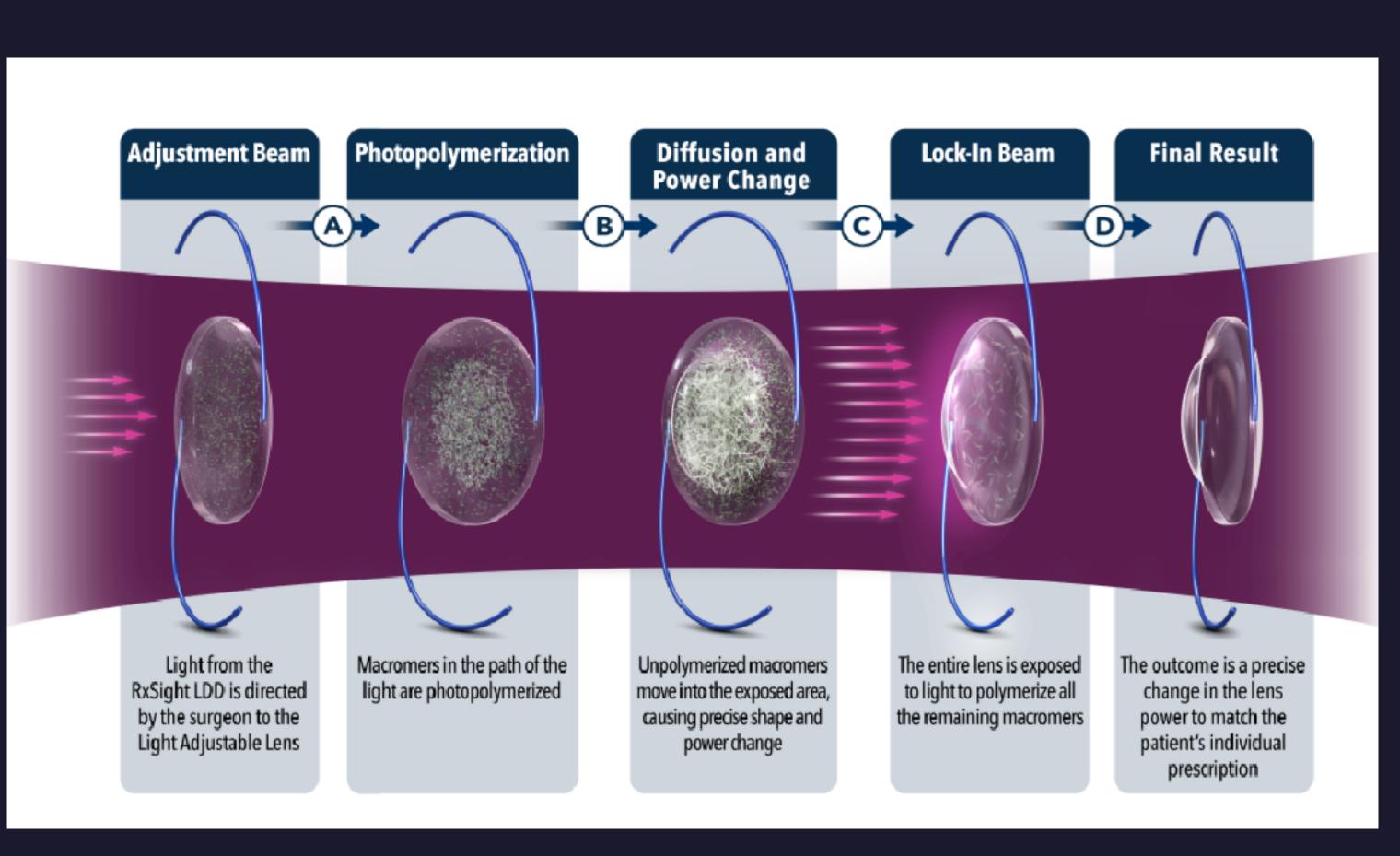
Especially nice for irregular corneas

CL intolerant Keratoconus patient: "This is the best I have seen in 60 years!"





Light Adjustable Lens



Customizable Vision

- Postoperative Adjustments: Vision can be fine-tuned after surgery to meet individual needs.
- Personalized Results: Patients can "test drive" their vision and have adjustments made for optimal clarity.

High Precision

- Accurate Vision Correction: Allows for adjustments in diopter strength postsurgery, ensuring precise correction of refractive errors.
- Adaptable to Lifestyle: Adjustments can be made to fit specific lifestyle needs (e.g., reading, computer use).

Slide Courtesy of Caroline Watson, MD



Light Adjustable Lens

Reduced Dependence on Glasses

- Enhanced Visual Outcomes: Potentially reduces or eliminates the need for glasses or contact lenses for most activities.
- Flexible Correction: Accommodates changes in vision preferences, such as prioritizing near or distance vision.

Addressing Residual Refractive Error

• Correcting Astigmatism: Provides an opportunity to correct residual astigmatism postoperatively.

Minimizing Re-Treatments:

• Reduces the need for secondary procedures like LASIK or PRK.



Slide Courtesy of Caroline Watson, MD



Crystalens - is there still a niche?

In my practice, patients with:

- Macular degeneration
- Normal zonules
- No likelihood of PPV
- La desire for some presbyopic correction...

Retinal Considerations

- Avoid silicone based implants in patients at high risk for <u>future PPV</u>
- No MF/EDOF in contrast-affecting macular disease
- Aphthera with caution if ERM, especially if poorly dilating pupil

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- Avoid silicone based implants in patients at high risk for future PPV
 - No MF/EDOF in contrast-affecting macular disease
 - Aphthera with caution if <u>ERM</u>, especially if poorly dilating pupil

Stirring the Pot...

- Are Extended Depth of Focus (EDOF) IOLs Really a Different Category Than 'Multifocal' IOLs?
- Are 'Enhance Monofocal' IOLs Really a Different Category Than 'Multifocal' IOLs?

Stirring the Pot...

- My View?
 - Light is either focus at one focal point or it isn't...
 - There are several ways to manipulate light wavefronts with IOLs:
 - Spherocylindrical Refraction
 - "Basic" and Toric IOLs
 - Refractive MFIOLs
 - Diffraction
 - Diffractive MFIOLs
 - Pinhole IOLs
 - Addition or Subtraction of Spherical Aberration
 - Combinations Thereof...

QS?

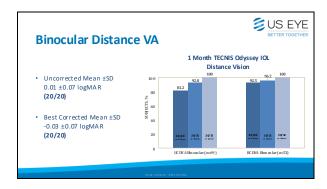


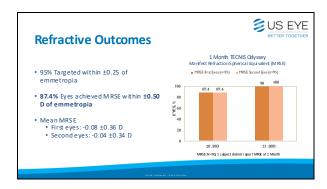
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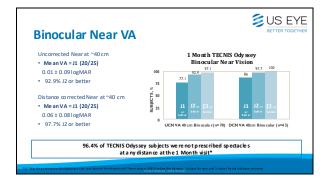


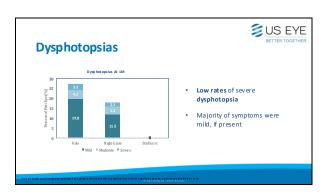
New Full Visual Ra All-new diffractive	
TECNIS Odyss ey IOL	Design goals: Optimized full range of vision Higher tolerance to residual refractive error Mitigate night vision symptoms High quality of vision
	Bring Curbins of 1 Ballier Brinshare

Clinical Study Design	S US EYE
Purpose: To assess real world outcomes of the new full visual range IOL.	TECNIS Odyssey
Study Design: Retro spective study 96 patients bilater ally implanted with the non-toric TECNIS Odyssey IO L, targ 12 Stes with 19 participating surgeons in the US Chartreview of visual performance and symptoms at the 1-Month postop will enhancements Small magnitude corneal astigmatism was managed per surgeon discretion (50% of the cohort underwent limbal relaxing indisions or arouate in disions) are	thou t po st-op



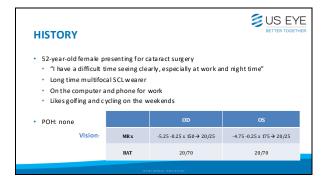


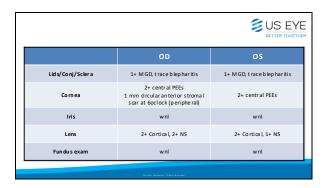


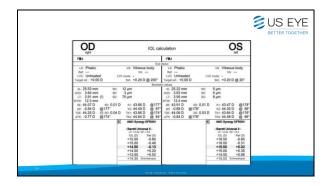


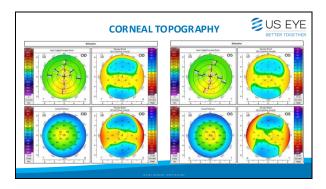
Conclusions from the 'Real-World' Study SEYE
In a real-world setting at 1 month postoperative, the new EDOF/Trifocal 'Odyssey' IOL demonstrated:
Full range of visionLow night vision symptoms
• High percentage not prescribed glasses at any distance

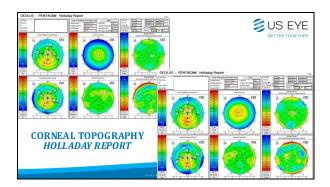


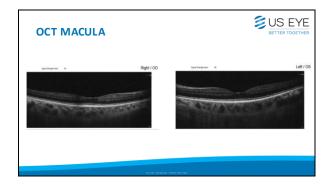
















OD: 20/15+1 distance, J1+ near OS: 20/15+1 distance, J1 near OU: 20/15+1 distance, J1+ near Patient was thrilled! She reported complete spectacle independence.

CONCLUSION/SUMMARY The Odyssey IOL delivers high-quality vision, while preserving contrast sensitivity, at all focal points Patients are thrilled with their distance vision from the beginning "Underpromise and overdeliver" – I tell every patient that they may need reading glasses Minimal complaints regarding dysphotopsias so far Pearls Aim closest to plano (or if dedding between two IDLs- select first minus) Reading gets better with time



update on secondary
Intraocular lenses
MATTHEW CUNNINGHAM, MD, FASRS
FLORIDA RETINA INSTITUTE/RCA
New Orleans Academy of Ophthalmology
February 2025

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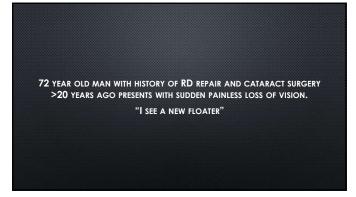
DISCLOSURES

- CONSULTANT: ALIMERA, ALLERGEN, ALCON, GENENIECH, OCUPHIRE PHARM, OCULAR THERAPEUTICS, ANI PHARMACEUTICALS
- Investigator: Alimera, Genentech, Inc., Jaeb Center for Health Research, Regeneron, Novartis, Ocuphire Pharm, Parexel, Ocular Therapeutics
- SPEAKER: GENENTECH, INC., APELLIS, ASTELLAS, REGENERON
- NONE RELEVANT TO THIS TALK

2

CASE

3





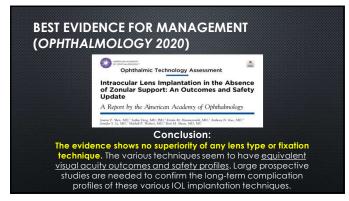


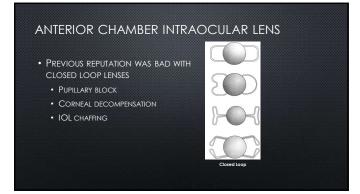


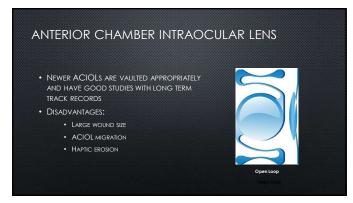
ETIOLOGY AFTER CEIOL, LATE DISLOCATION OF THE LENS TYPICALLY OCCURS DUE TO PROGRESSIVE ZONULAR INSUFFICIENCY AND CONTRACTION OF THE ANTERIOR CAPSULE. PROGRESSIVE ZONULAR WEAKNESS HAS BEEN ASSOCIATED WITH: PREVIOUS VITREORETINAL SURGERY UVEITS TRAUMA HIGH MYOPIA AGING ATOPIC DERMATITIS (E.G. REPEATED EYE RUBBING) CONNECTIVE TISSUE DISORDERS (ED, MARFANS)

8

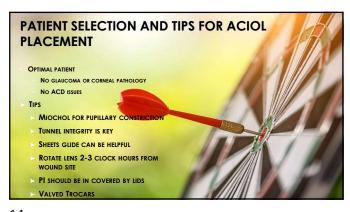
SECONDARY INTRAOCULAR LENS PLACEMENT - SIGNIFICANT DEBATE IN THE LITERATURE WITH REGARD TO WHAT IS BEST: - ANTERIOR CHAMBER LENS - SULCUS LENS WITH ADEQUATE CAPSULAR SUPPORT - SUTURED POSTERIOR CHAMBER LENS - SCLERAL FIXATED - IRIS BIXATED - SIRS BIXATED



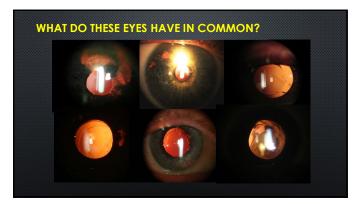
















SCLERAL SUTURED POSTERIOR CHAMBER LENS EXPANDED INDICATIONS MORE RECENTLY APHAKIC CONTACT LENS INTOLERANCE POSTERIOR LAMELLAR ENDOTHELIAL KERATOPLASTY AND PENETRATING KERATOPLASTY IRIS OR ACIOL LENSES WHICH LEAD TO PIGMENTARY GLAUCOMA ANTICIPATED GLAUCOMA VALVE IMPLANTATION LARGER OPTIC CAN PREVENT MIGRATION OF VITREOUS STEROID DELIVERY SYSTEMS

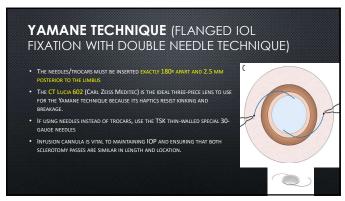
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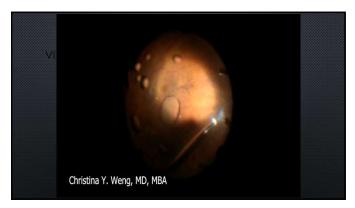
SCLERAL SUTURED IOLS

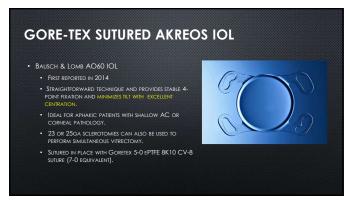
- VARIETY OF POTENTIAL COMPLICATIONS WITH SCLERAL SUTURED LENSES INCLUDING:
 - KNOT EROSION
 - Broken fixation suture (up to 50% in 4 years of follow-up)
 - VITREOUS HEMORRHAGE
 - RETINAL DETACHMENT
 - ANGLE CLOSURE GLAUCOMA

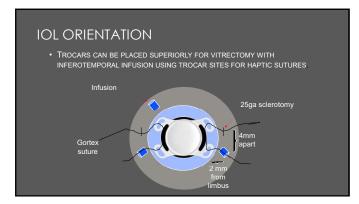
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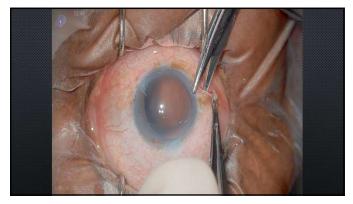
VARIETY OF NEWER TECHNIQUES • Glue or scleral embedded haptic • Akreos lens with Gore-Tex suture • Bulb technique (Yamane)

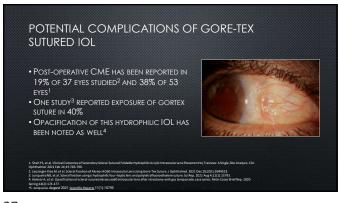




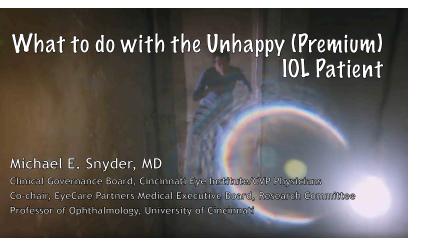








thanks for your attention	
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Disclosures

• DORC: Consultant

• Gore: Consultant

• Haag-Streit: Consultant

Humanoptics: Consultant, RoyaltiesJohnson and Johnson Vision: Research

· Plexitome: Research

• VEO Ophthalmics: Board member, Royalties (TKP)

"What should I do with the unhappy (Premium) IOL Patient?"



Where to Start?

How are they Unhappy?

The Dreaded "Patient History..."

How are they Unhappy?

- What are the (more common) symptoms?
 - Blur?
 - Halo?
 - Glare?
 - Shadow, Double or Multiple Images?
 - Reflections?
 - Positive Dysphotopsia?
 - Negative Dysphotopsia?
 - Aniseikonia?
 - · Dyschromatopsia?

How are they Unhappy?

- Are the symptoms uniocular or binocular?
- Are the symptoms constant or variable?
 - Is there a diurnal fluctuation?
- Are they stable or progressive?
- At what distance do the symptoms occur?
- WAS THE VISION EVER GOOD SINCE SURGERY?

How are they Unhappy?

- If there are a litany of complaints (common), what are the top 3?
 - ► Need cone-in...

Where are They Unhappy?

• Do both eyes have the same anatomy?

What is the MAGNITUDE of their unhappiness?





Blur

- Ametropia (DKR)
- Tear Film
- WDI
- Irregular Astigmatism
- PCO
- IOL Malposition/Tilt
- Macular Diseases
- Optic Nerve Disease
- "My Husband Sees Farther than I do!" (He is a fighter pilot, 20/10)

Dimness

- Is the patient taking a miotic?
- Do they have a pinhole IOL?
- Is there an RAPD?
- Macular disease?

Brightness

- Is the patient taking a mydriatic?
- Do they have a pinhole IOL?
- Is there an APD?
- Macular disease?

Halos...

- Ametropia?
- Resting Photopic/Scotopic Pupil Size? Shape?
- Is there a PI?
- What type of IOL? MFIOL? Pinhole?

Aniseikonia

- Anisometropia?
- ERM
- Hx PPV/MP?
- Hx CME

Dyschromatopsia



Dyschromatopsia

Too yellow? (Xanthopsia)



Dyschromatopsia

Too Blue? (Cyanopsia)



Dyschromatopsia

Too Red? (Erythropsia)



Dyschromatopsia

Too Washed Out?



Dyschromatopsia

Too Saturated?



Dyschromatopsia

- Uniocular or binocular? What is the difference between the two eyes?
- Does the IOL have a chromophore?
- Does the fellow eye have a chromophore? (Either in IOL or urochromes in lens)
- Macular or ONH disease/red desaturation?
- Color testing (with HRR plates)
- Look at the medication list!



Intraocular Lens Discoloration





Summary of reported intentional and non-intentional coloration and discoloration of IOLs (Malik Ladki, Alana Snyder, et. al)

Color	Origin of (dis)coloration	IOL type	Putative effect (if intentional)	Known symptoms
Brown¹(Non-intentional)		Acrylic hydrophobic aspheric lens- Abbott Medical Optics		Decreased color contrast sensitivity
Blue ³ (Non-intentional)		Acqua® (Mediphacos)- hydrophilic acrylic lens		Cyanopsia
Green ² (Non-intentional)	Presumed degenerative changes	Silicone IOL (Allergan SI-40NB)		None
Yellow⁴ (intentional)		1)Alcon Laboratories "Natural" chromophore- AcrySof SN60AT 2)Hoya- PY-60AD 3)Zeiss- CT LUCIA 621PY* 4)HumanOptics: ASPIRA-aAY	Mimic the natural color of the human crystalline lens, attenuate blue-light radiation and shorter wavelength optical radiation.	Xanthopsia (uncommon)
Orange ^{5,6} (Intentional)	Blue light–filtering IOL covalently bound to orange chromophore	PC 440Y (Ophtec) – not currently in production	Mimic protective properties of a middle-aged human lens	Decreased color discrimination (uncommo
Yellow hue/Blue- appearing7.8.9.10 (Intentional)	Violet light-filtering chromophore	Johnson and Johnson Optiblue®	"Full transmission of healthy blue light": Improved scotopic and melanopsin sensitivity	None
Champagne ¹¹ (Intentional)	"Active shield" UV blocker	RXSight Light adjustable lens	Prevent premature refractive "lock in"	None
Red (Non-intentional)	Presumed degenerative changes	Silicone plate (Staar)		None

Work-Up:

- Refraction/Autorefraction (DKR)
- Exam!
 - Make sure to see them first before dilation!
- Cross-Cover Testing

Work-Up: Adjunctive Testing

- Topography (Placido disc-based)
- ► OCT Macula
- OCT ONH
- OCT Cornea or Lens (Tilt?)
- ► UBM
- ► FANG
- ► VF
- Color testing

Cases

Case: "I can't see my chart!"

- 60-ish y.o. anesthesiologist with nuclear cataract
- Undergoes sequential Phaco, ReStor MFIOL OU (Nov, Dec)
- Everything is blurry and I can't see my charts in the OR, even with glasses
- Exam is notable for (persistent) reduced tear film and 2-3+ PEK OU
- 4 months post-op, 2-page, type-written letter...

Case: "Now I can see my chart!"

- Ends up 20/20, J1+ OU and thrilled.
- Sends us a Holiday card and a tray of pastries at year-end.

Case: "I can't see my food!"

- 28 y.o.woman with bilateral PSC cataract
- Cancels MFIOL weekend before surgery
- Happy after first monofocal IOL eye
- FURIOUS after second eye

Case: Positive Dysphotopsia

- CUDE for special order, custom made:
 - I) ultra low power IOL made from
 - 2) hydrophilic acrylic (less shiny), in
 - 3) 7.0mm optic diameter.
- IOL Exchange with PCCC and CTR Placement.
- Ultimately, Phaco/CTR/IOL with CUDE implant in fellow eye.

Case: Positive Dysphotopsia

- After cataract surgery with a 4.0D hydrophilic acrylic IOL, the patient has intolerable halos, glare and reflections.
- His resting pupil size is 7mm.
- He does not like the dimness he gets with pilocarpine drops.
- Now has an intolerable PSC cataract in the other eye.
- What to do for that eye?
- What to do for the first eye?

Case: Positive Dysphotopsia

- Happy x Many Years
- Then Develops Pseudophakodonesis...
- ...Told he needs PPV and Yamane fixation...
- Now what?
- Observing, now x 3 years with no change.
- And when he does need surgery Loop sutures around CTR!

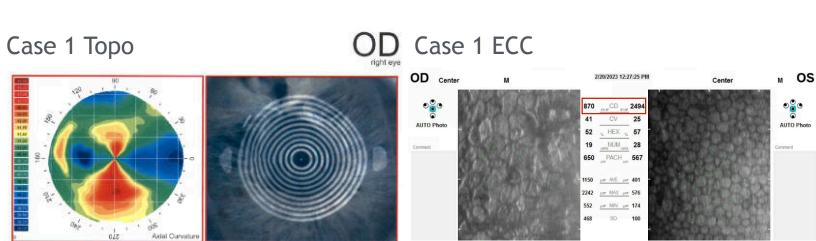
Case

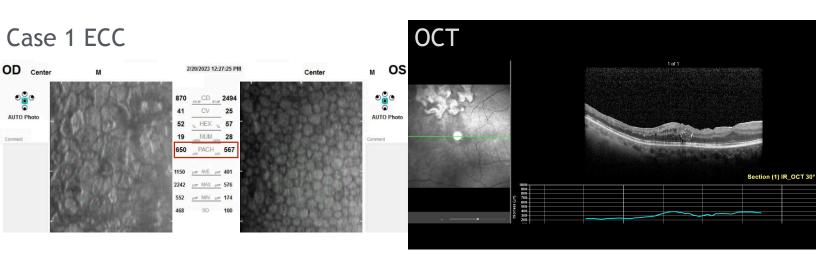
- ► 59 year-old man
 - ► Mx: BSCVA = 20/20...

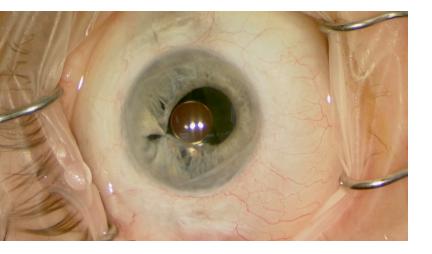
Case

- ► 59 year-old man
 - Phaco/IOL (wrong IOL power)
 - IOLX (Iris damage with photic symptoms)
 - IOLX for Morcher 10mm BDI, 3.5mm optic, large CRI/AK (Positive dysphotopsias)









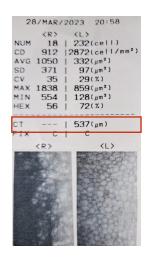
Case 1

- Post-op:
 - Hypotony
 - ► Ate a bad dinner POD #4, emesis, SCH
 - Eventual selective suture lysis
 - ► Photic symptoms gone, except very bright in the sun

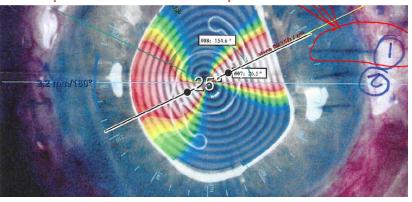
Post -Op ECC

28/MAR/2023 20:58				
	<r></r>	<l></l>		
NUM	18	232(cell)		
CD	912	1		
AVG	1050	332(μm²)		
SD	371	$ 97(\mu m^2)$		
CV	35	29(%)		
MAX	1838	859(µm²)		
MIN	554	128(μm²)		
HEX	56	72(%)		
CT		537(µm)		
FIX	С	C		
	<r>></r>	〈L〉		

Post -Op ECC



Topo 1 Week Post-Op



Result?

- "Rainbow colored reflections and light streaks are gone."
- Functions well on partly cloudy days, but still needs sunglasses or a small (3mm) aperture contact lens for bright days (if no sunglasses)

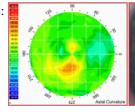
A Case of Lavender:

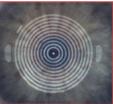
- 78 year old lady referred from 2 hours away for possible IOLX
- 6M s/p phaco/pinhole IOL OS. (Told she had a "kidney shaped cornea")
- The day of surgery saw a lavender tint to her vision, that has diminished (but not disappeared) over the past few weeks.
- · Glare/halos with Night Driving
- Lavender floaters that move, especially with glasses on or in bright areas.
- Eye is pulling/straining when her glasses are off.
- Vision clarity has improved since surgery but is very bothered by the odd coloring of her vision.
- Takes Brim 0/2 for nighttime glare with some help done OS.

A Case of Lavender:

• Exam:

- Vcc: OD: 20/20, OS: 20/15
- OD moderate nuclear cataract; OS: In the bag PH-IOL, 2+ PCO
- Topo OS:





A Case of Lavender:

- Discussion
- Unsure of lavender spots she sometimes fleetingly notices, though *not a red flag for pathology* (and she is not worried about it).
- Reduced clarity is PCO related. OK for YAG capsulotomy (outside of mask) prn.
- YAG will make IOL exchange more challenging, but she is OK with this.
- Halos at night are likely pinhole related. She can tolerate this fine with the brimonidine.
- Cooler colors OS ("fluorescent" OS compared to "incandescent" OD) is actually from urochrome pigments artifactually yellowing the colors OD. Reassured.
- She thinks she can "stay" happy with IOL OS



Case: Irate MFIOL IOL(???)

- Competitor did bilateral phaco/MFIOL.
- 20/20, J1+
- Pt was so unhappy that competitor refunded \$\$ in exchange for a liability waiver, gag order, and 200-yard voluntary restraining order.
- Pt's problem was floaters.

CASE: Was good, now bad...

Pt Underwent Phaco/LAL OU

► POM1: UCDVA: 20/20-2 OU, UCIVAL: 20-30-2 OU, UCNVA: J2+ OU

► Week 3 Mx: OD: -1.25 + 1.00 x 173; OS: -1.75 + 1.25 x 005

LAL Treatment OU x 2

► Final result: UCDVA: 20/15 OU! UCNVA: J1+ OU!

Don't celebrate too soon...

Excerpts from letter POM5:

"Unfortunately the weather has been affecting my eyes..."

Don't celebrate too soon...

Excerpts from letter POM5:

"Unfortunately the weather has been affecting my eyes..."

"I paid over \$12K for these lenses and I do not want seasonal issues."

Don't celebrate too soon...

Excerpts from letter POM5:

"Unfortunately the weather has been affecting my eyes..."

"I paid over \$12K for these lenses and I do not want seasonal issues."

"I have several friends who paid a lot less for the traditional lenses and have none of my issues."

Don't celebrate too soon...

You please some of the people all of the time...

...you can please most of the people most of the time...

...but you can't please all of the people all of the time!

Don't celebrate too soon...

You please some of the people all of the time...

...you can please most of the people most of the time...

...but you can't please all of the people all of the time!

And some people you just cannot please!

What Else is Going on in Patient's Life?

- Time of Undue Stress or Hardship?
- · Can Patient not "Adapt?"
- Is There no Obvious Cause or no Treatment?
- Do Not Forget to Offer Getting them Plugged in with Counseling.

Overriding Principles

Overriding Principles

- Careful History
- · Careful Exam
- Setting realistic expectations pre-op is easier than post-op.
- · Patients have short memories.
- There is no perfect IOL not all problems can be fixed.
- · Fixing one problem may create another.
- Not all fixes work.
- Not all patients want the 'problem' to be fixed.
- Some patients will ask for more than you can achieve
- "Which option may make you least unhappy?"
- Sometime YOU need to be the adult in the room and say "no."
- ...But you can still suggest options to help them cope.

Qs?

Vitrectomy for Vitreous Opacities

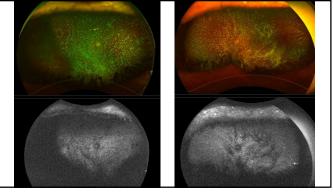
Matthew Cunningham, MD, FASRS Florida Retina Institute New Orleans Academy of Ophthalmology February 2025

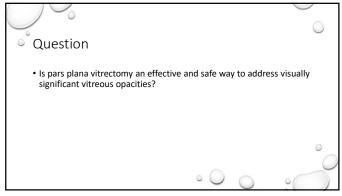
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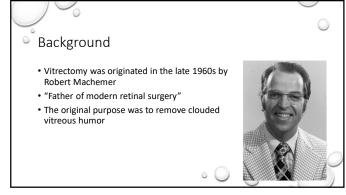
- Consultant: Alimera, Allergen, Alcon, Genentech, Ocuphire Pharm, Ocular Therapeutics, ANI Pharmaceuticals
- Investigator: Alimera, Genentech, Inc., Jaeb Center for Health Research, Regeneron, Novartis, Ocuphire Pharm, Parexel, Ocular Therapeutics
- Speaker: Genentech, Inc., Apellis, Astellas, Regeneron

2





Why pars plana vitrectomy has come of age for vitreous opacities in selected patients. Why pars plana vitrectomy has come of age for vitreous opacities in selected patients. By Jaya B. Kumar, MD, and Matthew A. Cunningham, MD Take-home Points White A. White proved selby profiles to small-gauge vitrectomy and excellent patient outcomes, it's time to accept and espect the scope of vitreoriental surpeys in include para plana vitrectomy for vitreous specifies. When assessment gastered with symphosis Vor, pay practicual enterion to be feetinost datas, presence of a Weiss ring, absence of vitreous cell and peripheral refusile findings. During the circles evilation, relate to be in load enterior findings. A while were to review the risks of Priv mit patients. These risks include retiral finars, hypothony, vitreous hemorings, modular edoem and retiral defaultment. By enuming out patients have been spectionated for more than ast months, are pseudophakic and have had a Weiss ring present on exam, we've had no significant adverse events associated with Priv for symptomate VO.



Vitrectomy surgery

- Historically recommended to treat conditions related to:
 - · Diabetic retinopathy
 - Some forms of retinal detachments
 - Macular hole
 - Macular pucker
 - Endophthalmitis
 - · Complicated cataract surgeries
 - Severe eye injuries



7

© PPV for Vitreous floaters

- · Vitreous floaters can be visually virreous floaters can be visually significant and impair patient's quality of life by interfering with daily activities.
 options include: observation, YAG laser vitreolysis, and PPV.
 The ASR SeST committee recommended additional investigation for YAG laser vitreolysis
- Vitrectomy surgery has increasingly been used to remove visually significant vitreous opacities/floaters



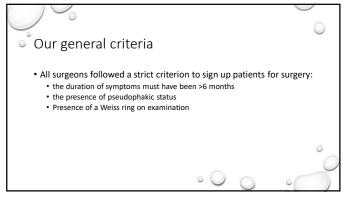
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Previous studies....

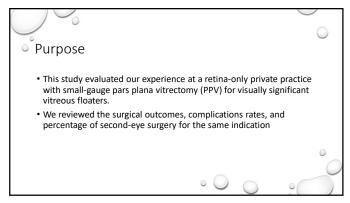
- Sebag et al. (2014) a posterior vitreous detachment was not present in all patients preoperatively, and a PVD was not induced during surgery; 4 out of the 195 cases (2.1%) developed recurrent floaters after developing a PVD
- De Nie et al reviewed 110 vitrectomies for vitreous floaters over 12 years; they found a high postoperative retinal detachment rate of 11%, with >50% undergoing a 20 gauge PPV.
- In several past studies, <50% of included eyes were pseudophakic.

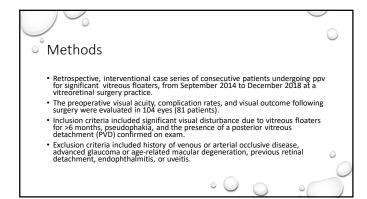
Sebag, Jerry, et al. "Vitrectomy for floaters: prospective efficacy analyses and retrospective safety profile." Retina 34.6 (2014): 1062-1068.

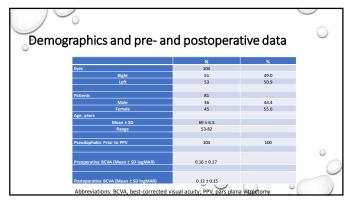
(2014): 1062-10b8.
De nie KF, Crama N, Tilanus MA, et al. Pars plana vitrectomy for disturbing primary vitreous floaters: clinical outcome and patient satisfaction. Graefes Arch Clin Exp Ophthalmol. 2013;251(5):1373-1382.

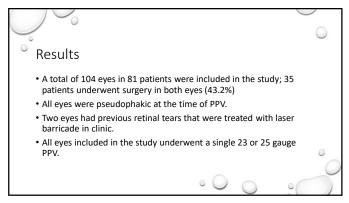


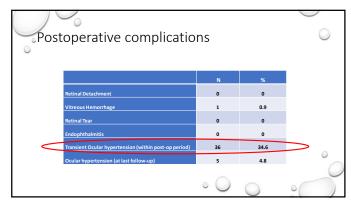


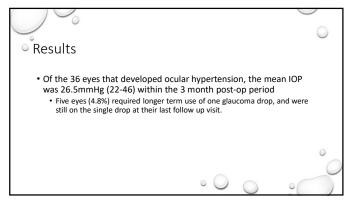


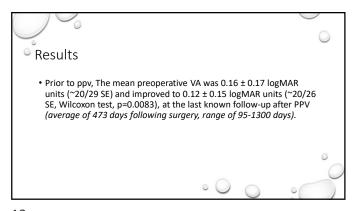


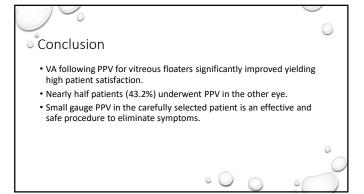


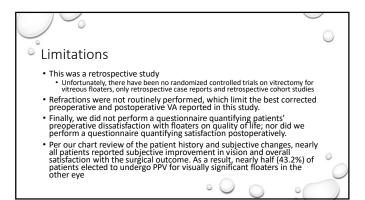


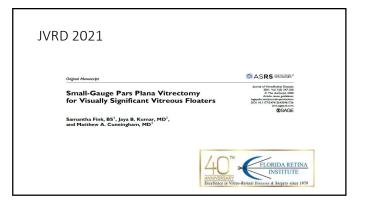












Thanks for your attention	
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