



STATE BOARD OF OPTOMETRY
 2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834
 P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



Continuing Education Course
 Approval Checklist

Title:

Provider Name:

- Completed Application
 - Open to all Optometrists? Yes No
 - Maintain Record Agreement? Yes No
- Correct Application Fee
- Detailed Course Summary
- Detailed Course Outline
- PowerPoint and/or other Presentation Materials
- Advertising (optional)
- CV for EACH Course Instructor
- License Verification for Each Course Instructor
 - Disciplinary History? Yes No



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CONTINUING EDUCATION COURSE APPROVAL APPLICATION

\$50 Mandatory Fee

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule, a detailed course outline and presentation materials (e.g., PowerPoint presentation). Applications must be submitted 45 days prior to the course presentation date.

Please type or print clearly.

Course Title Advances in Astigmatism Management	Course Presentation Date <div style="text-align: center; font-family: monospace; font-size: 1.2em;"> 0 2 / 1 3 / 2 0 1 7 </div>
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Course Provider Contact Information

Provider Name Lina Poyzner <small>(First) (Last) (Middle)</small>		
Provider Mailing Address Street 1450 San Pablo St City Los Angeles State CA Zip 90033		
Provider Email Address <u>lina.poyzner@med.usc.edu</u>		
Will the proposed course be open to all California licensed optometrists?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Do you agree to maintain and furnish to the Board and/or attending licensee such records of course content and attendance as the Board requires, for a period of at least three years from the date of course presentation?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

Course Instructor Information

Please provide the information below and attach the curriculum vitae for each instructor or lecturer involved in the course. If there are more instructors in the course, please provide the requested information on a separate sheet of paper.

Instructor Name James Randleman Bradley <small>(First) (Last) (Middle)</small>		
License Number <u>143864</u>	License Type <u>MD</u>	
Phone Number <u>(323) 442-6383</u>	Email Address <u>lina.poyzner@med.usc.edu</u>	

I declare under penalty of perjury under the laws of the State of California that all the information submitted on this form and on any accompanying attachments submitted is true and correct.

Lina Poyzner
 Signature of Course Provider

02/01/2017
 Date

Advances in Astigmatism Management – 2 hours

This course will teach strategies for minimizing surgically induced astigmatism, discuss surgical options for treating astigmatism during cataract and refractive surgery (including wound construction approaches, limbal relaxing incisions, toric IOLs, and corneal refractive surgical techniques), and demonstrate methods for treating postoperative astigmatism occurring after cataract and refractive surgery. Objectives By the conclusion of this course, the participants will be able to (1) identify regular and irregular astigmatism, (2) understand surgical strategies to minimize surgically induced astigmatism and determine treatment strategies for astigmatism, including complex refractive errors and eyes not amenable to surgical treatment, and (3) employ practical strategies for determining patient goals and desires for astigmatism correction.

Surgical Management of Astigmatism in Cataract and Refractive Surgery

2 hours

1. Understanding Astigmatism
 - Effect of experimental induced astigmatism on functional, conventional, and low-contrast visual acuity
 - Premium IOL use
2. Case 1
3. Case 2
4. Case 3
5. Managing Astigmatism
 - a. Options for Astigmatism Management
 - i. LASIK/ASA
 - ii. Toric IOL
 - iii. AK/LRI
 - iv. On Axis Wound
 - b. Advances in Astigmatism Management
 - i. Limbal Relaxing Incisions
 1. Nomograms
 2. Atomic Edge Accurate Depth Knives
 - ii. Femtosecond Arcuate Incisions
 - iii. Arcuate Incisions
 - c. Correction of Astigmatism during Cataract Surgery
 - i. Toric IOLs
 1. AcrySofToric
 2. Staar Toric
 3. Trulign Toric
 4. Tecnis Toric
 - d. Intraoperative Devices
 - i. Verion
 - ii. Zeiss Lumera
 - e. Toric IOL Websites
 - f. Toric IOL Calculators
 - g. Toric IOL Fixes
 - h. Summary

SURGICAL MANAGEMENT OF ASTIGMATISM

In
Cataract & Refractive Surgery



Presenter Introduction

- **J. Bradley Randleman, MD**
- Professor of Ophthalmology, Keck School of Medicine of USC
- Director, Cornea & Refractive Surgery Section, USC Roski Eye Institute
- Editor-in-Chief, *Journal of Refractive Surgery*

randlema@usc.edu



COURSE OUTLINE

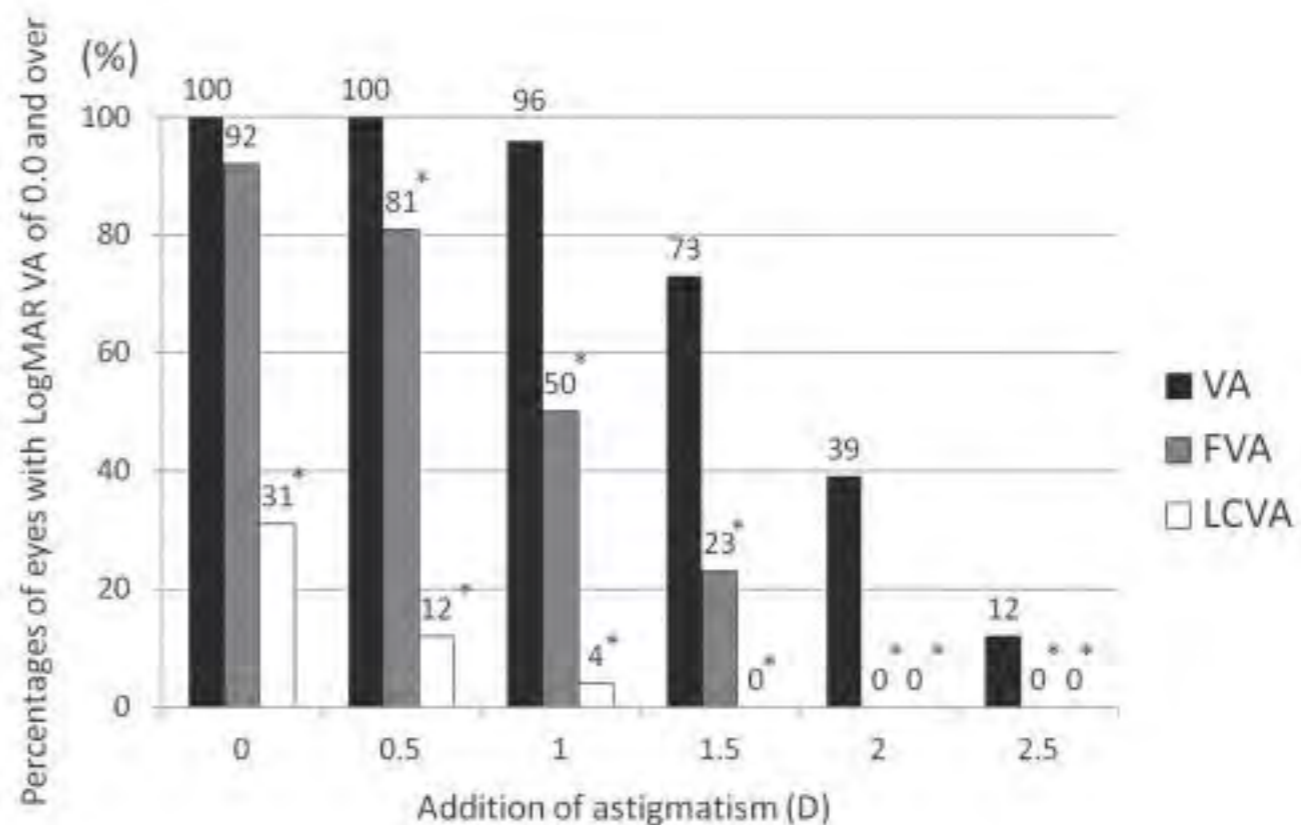
- Understanding Astigmatism
- Preventing surgically-induced astigmatism
- Managing naturally occurring astigmatism
- Matching patients with lenses for optimal outcomes

ASTIGMATISM

**SINGLE MOST PERVASIVE REFRACTIVE
BARRIER
TO
HIGH QUALITY
UNCORRECTED VISUAL ACUITY**

Effect of Experimentally Induced Astigmatism on Functional, Conventional, and Low-Contrast Visual Acuity

Kazuhiro Watanabe, MD; Kazuno Negishi, MD; Miho Kawai, MS; Hidemasa Torii, MD; Minako Kaido, MD; Kazuo Tsubota, MD



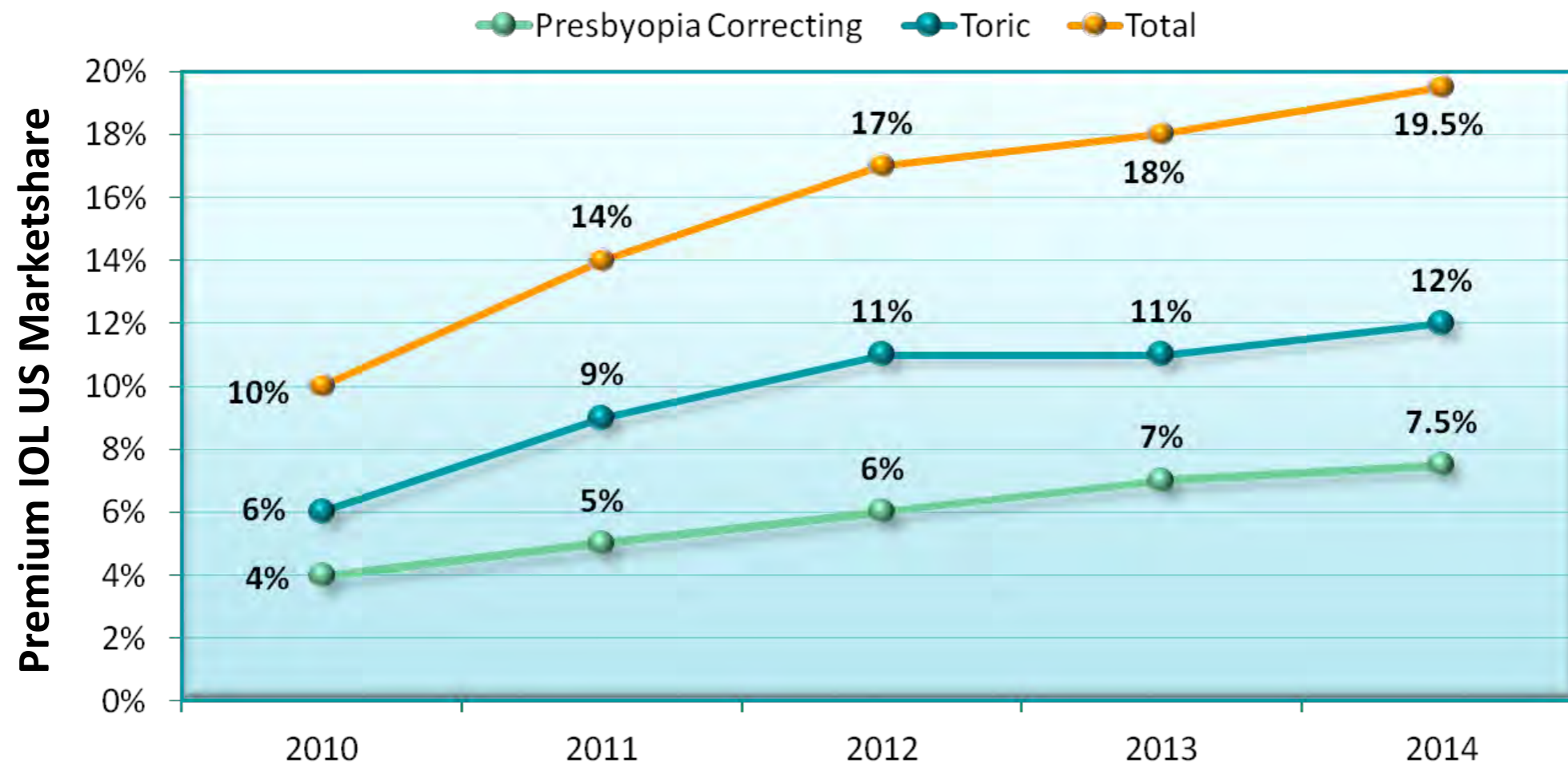
Prevalence of Astigmatism

Astigmatism	%
$\geq 1.5D$	18%
$\geq 1.0D$	38%
$\geq 0.75 D$	53%
$\geq 0.5D$	72%

Warren Hill MD, 6000 patients

PREMIUM IOL USE

US Market Overview



CASE I

41 y male	OD	OS
CDVA	20/50	20/50
MRx	-2.00 +1.00 x 090	-2.00 +1.00 x 090
K's	45.5/46.5 @ 090	45.5/46.5 @ 090
Exam	dense PSC	dense PSC

CASE 2

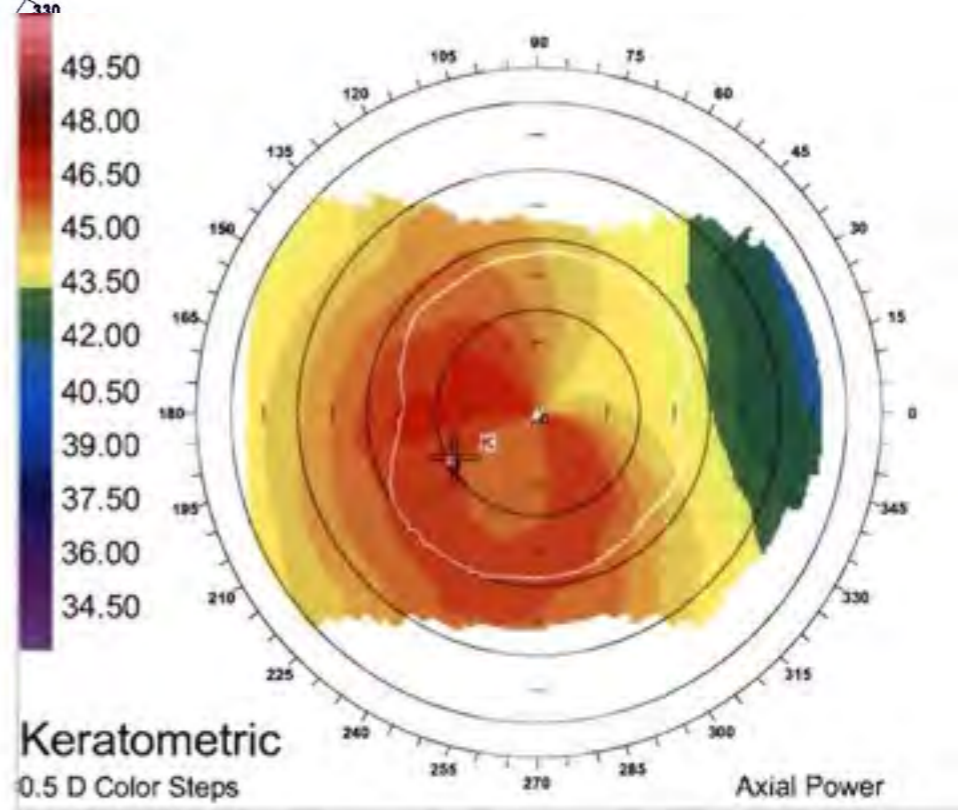
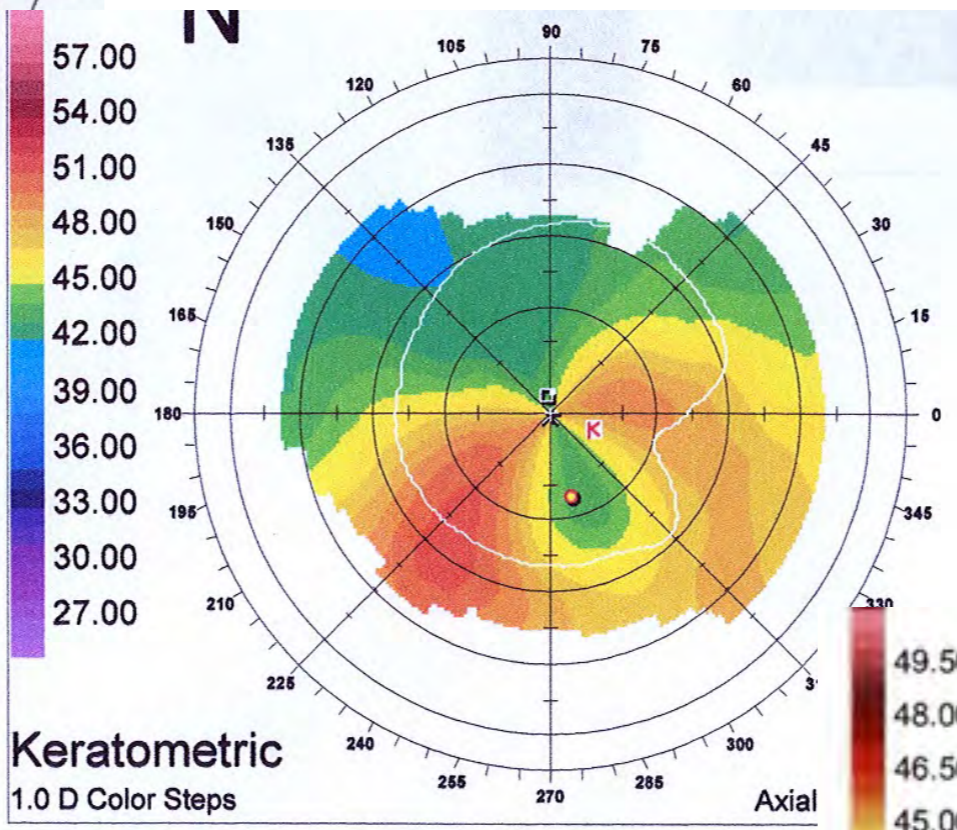
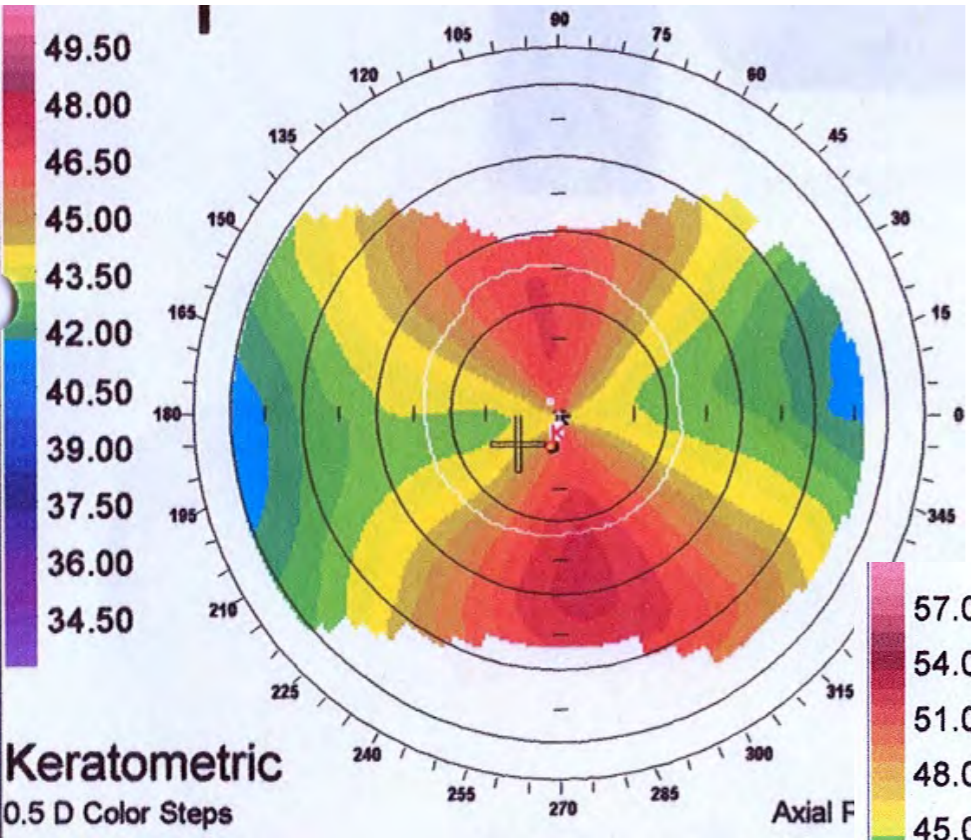
59 y female	OD	OS
MRx	-6.75 +1.75 x 120	-6.00 +1.00 x 020
CDVA	20/25	20/25
CCT	530	540

Patient has dry eyes

CASE 3

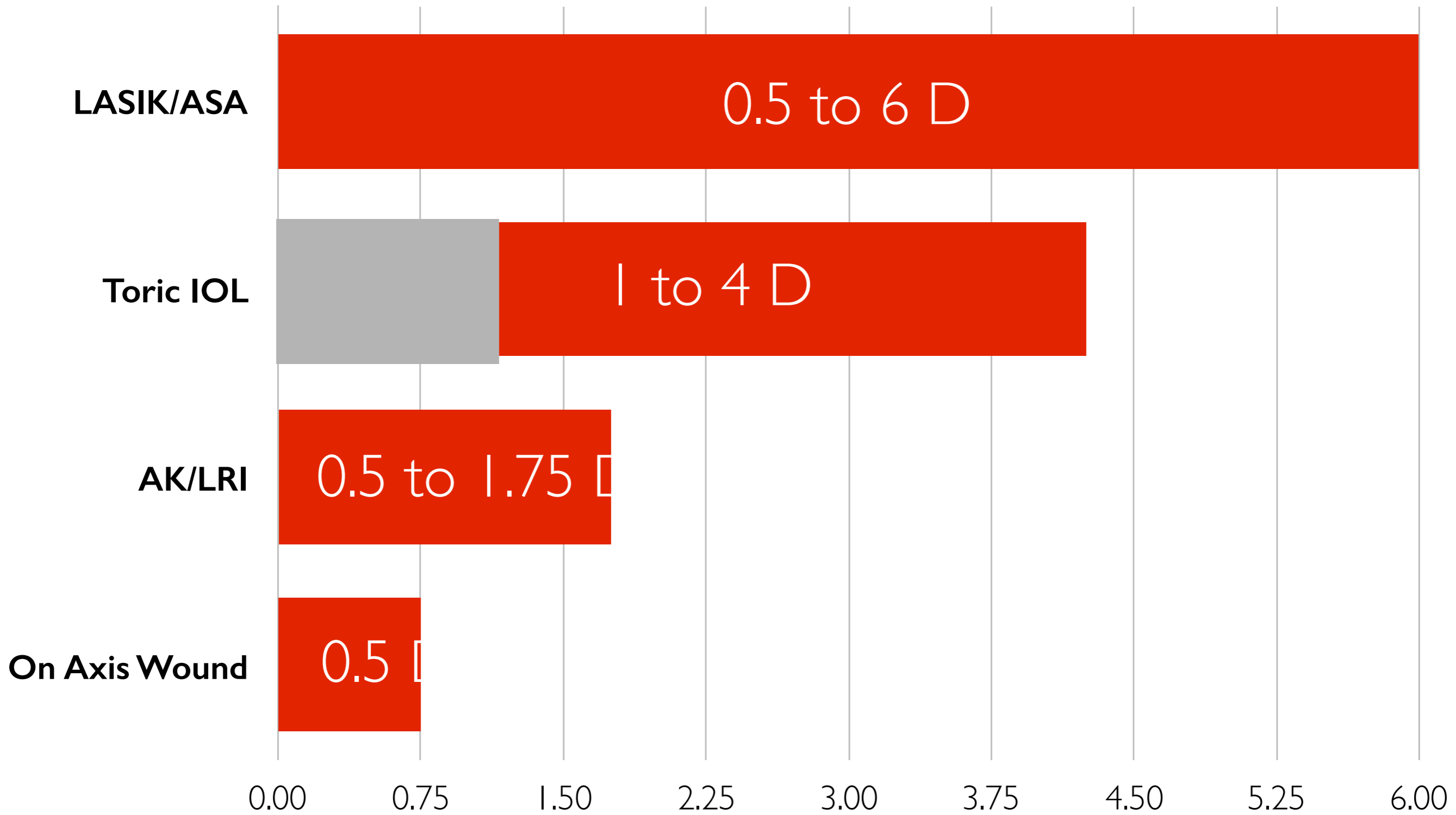
58 y female	OD	OS
CDVA	20/70	20/60
MRx	-2.00 +2.00 × 125	-2.00 +2.00 × 125
K's	47.0/51.0 @ 070	47.5/50.5 @ 095
Exam	2-3+ NSC	2-3+ NSC

Wants Multifocal IOLs



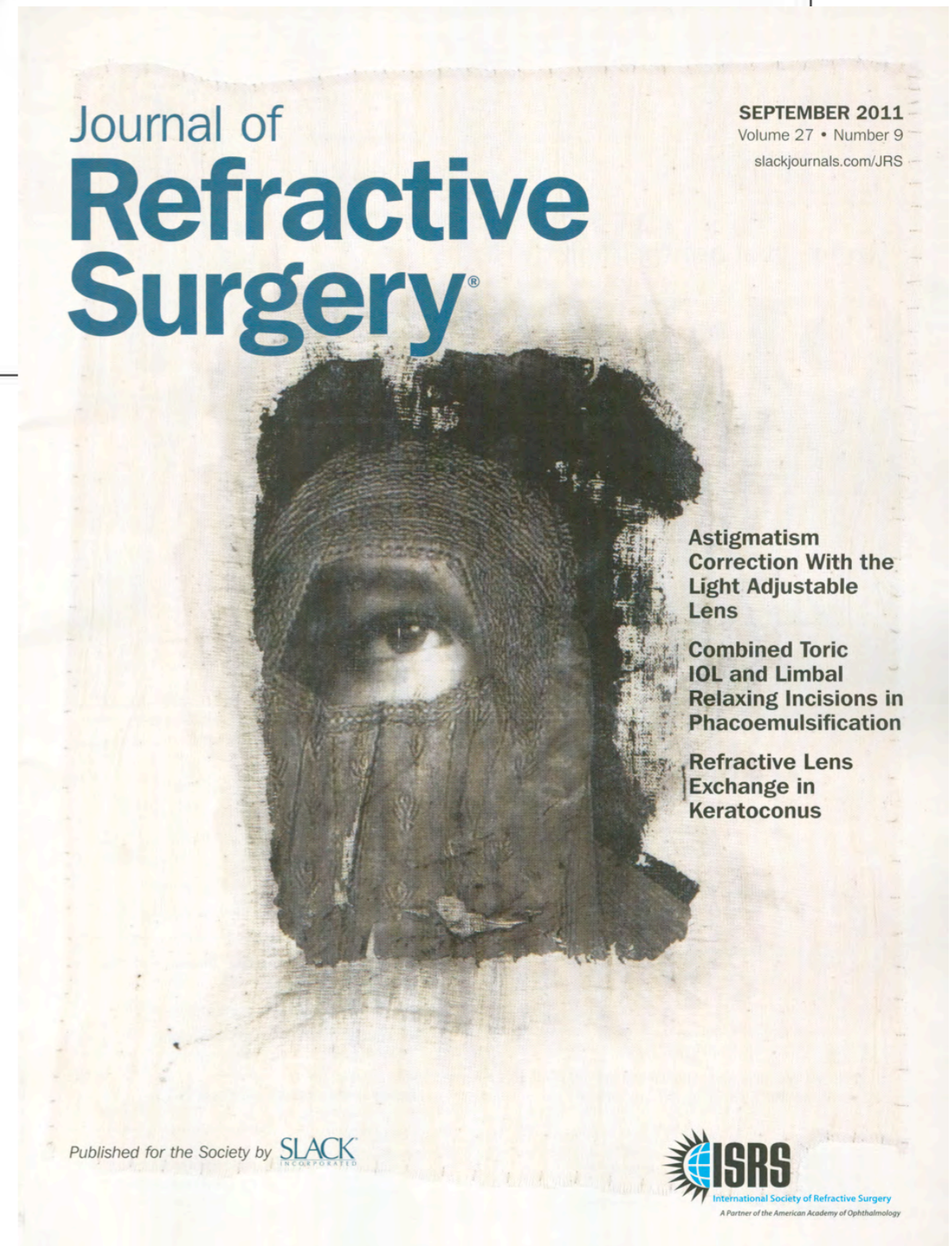
MANAGING ASTIGMATISM

Options for Astigmatism Management



Advances in Astigmatism Management

J. Bradley Randleman, MD



LIMBAL RELAXING INCISIONS

Astigmatism Management: Limbal Relaxing Incisions

- ◆ Nomograms:
 - ◆ J. Gills
 - ◆ D. Koch
 - ◆ R. Lindstrom
 - ◆ B. Wallace
 - ◆ S. Thorton
 - ◆ L. Nichamin
 - ◆ K. Miller
 - ◆ E. Donnenfeld

Donnenfeld Nomogram

- 0.50 D: 1 incision 1 and a half clock hours
- 0.75 D: 2 incisions 1 clock hour
- 1.50 D: 2 incisions 2 clock hours

- ◆ A little more for against the rule and younger patients
- ◆ A little less for older patients

Nichamin Nomogram

NOMOGRAM FOR ASTIGMATIC KERATOTOMIES WITH CLEAR CORNEAL PHAKO SURGERY

Louis D. Nichamin, MD, Laurel Eye Clinic, Brookville, PA

If astigmatic status is

1. **"spherical"**: (+0.75x90 <-> +0.50x180)

Use incision design : "neutral" viz. temporal clear corneal incision, 3.5mm or less, single plane, just anterior to vascular arcade

2. **"against-the-rule"**: steep axis 0 - 30° / 150 - 180°

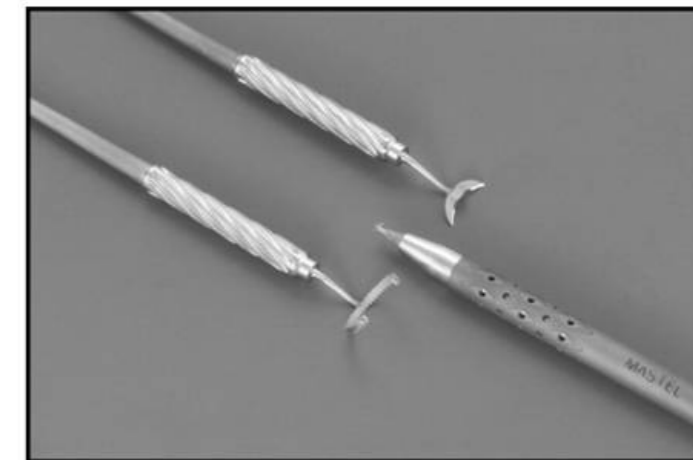
Intraoperative keratoscopy determines the exact incision location. The temporal incision is made by first creating a two-plane, grooved phako incision (600µ depth), which is then extended to the appropriate arc length at the conclusion of surgery.

Pre-op cylinder		30-40 yr	41-50 yr	51-60 yr	61-70 yr	71-80 yr	81-90 yr	> 90 yr
+0.75 to +1.25	Nasal limbal arc only						35	
	Paired limbal arcs on steep axis	55	50	45	40	35		
+1.50 to +2.0	Paired limbal arcs on steep axis	70	65	60	55	45	40	35
+2.25 to +2.75	Paired limbal arcs on steep axis	90	80	70	60	50	45	40
+3.00 to +3.75	Paired limbal arcs on steep axis	↓to 8mm; 90	↓to 8mm; 90	85	70	60	50	45
degrees of arc to be incised								

3. **"with-the-rule"**: steep axis 45 - 145°

"neutral" temporal clear corneal incision along with the following peripheral arcuate incisions

Pre-op cylinder		30-40 yr	41-50 yr	51-60 yr	61-70 yr	71-80 yr	81-90 yr	> 90 yr
+1.0 to +1.50	Paired limbal arcs on steep axis	50	45	40	35	30		
+1.75 to +2.25	Paired limbal arcs on steep axis	60	55	50	45	40	35	30
+2.50 to +3.00	Paired limbal arcs on steep axis	70	65	60	55	50	45	40
+3.25 to +3.75	Paired limbal arcs on steep axis	80	75	70	65	60	55	45
degrees of arc to be incised								



Atomic Edge™ Accurate Depth Knives

Diamond Sharpness, Single-Use Convenience

Accurate Depth Knives for LRI and groove incisions

- Equal in performance to diamond blades
- Precise fixed blade exposure
- Brand new sterile knife with each case
- Single-use design



Atomic Edge™ Accurate Depth Knives	
Description	Item #
Accurate Depth Knife, 250 micron	370225
Accurate Depth Knife, 300 micron	370230
Accurate Depth Knife, 350 micron	370235
Accurate Depth Knife, 400 micron	370240
Accurate Depth Knife, 500 micron	370250
Accurate Depth Knife, 550 micron	370255
Accurate Depth Knife, 600 micron	370260
Accurate Depth Knife, 625 micron	370262
Accurate Depth Knife, 650 micron	370265

Also Available to Meet Your LRI Needs:	
Description	Item #
Beaver® Swivel Fixation Ring	372242
Visitec® Bonn Forceps (stainless steel)	581409
Visitec® Bonn Forceps (plastic handle)	581439



For ordering information call:
1.866.906.8080/1.781.906.8080
or visit www.beaver-visitec.com



Doctors Name	Dr. Donnenfeld
Patient Name or ID	01234
Patient Age	65
Eye Selection	OS - Left Eye
Steep Meridian	45 / 225
Flat Meridian	135 / 315
Steep K	38.00 D
Flat K	36.00 D
Preoperative Astigmatism	2.00 D
Phaco Incision	Yes
Surgically Induced Cylinder	1.00
Incision Location (IL)	0


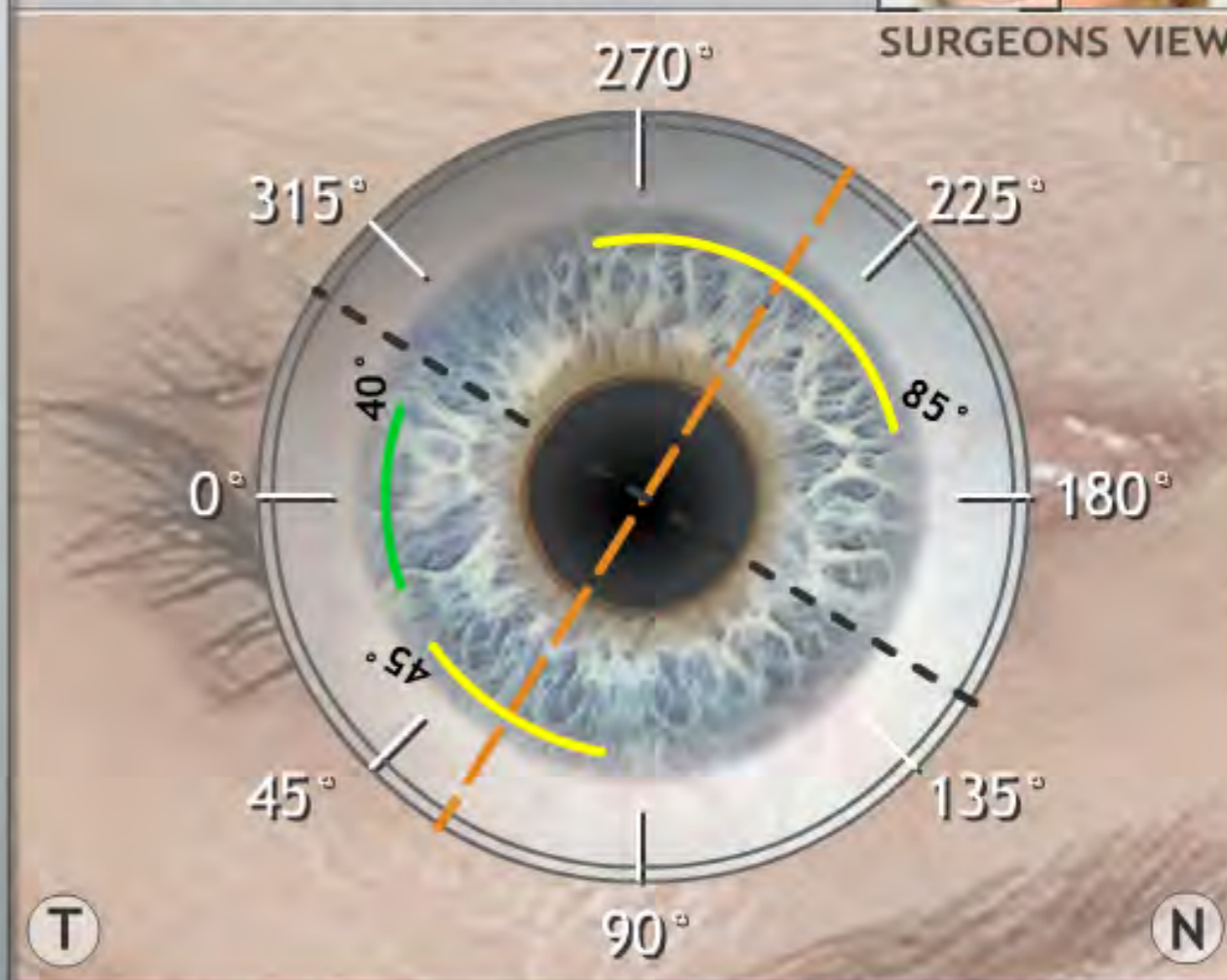
edit

print

New-Steep K: 38.12D New-Flat K: 35.88D
 Astigmatism: 2.24D Treatment: 1.75D
 LRI-Incision(s): 2 Incision Size: 85°/2.8 c.h. | 45°/1.5 c.h.

Ⓢ To fully correct all astigmatism, you may need an additional procedure.

Show scale in degrees
 Show scale in clock hours (c.h.)

Caption:

Phaco-Incision — Steep Axis - - - 58 / 238
 LRI-Incision — Flat Axis - - - - 148 / 328

Ⓢ This tool uses vector analysis and assumes the phaco incision will shift the Steep and Flat Meridians as shown above.

FEMTOSECOND ARCUATE INCISIONS

FEMTOSECOND SURGERY ARCUATE INCISION

- laserarcs.com
- www.lricalculator.com
- www.julianstevens.co.uk

LRI CALCULATOR (AMO)



LRIcalculator.com



Welcome to the AMO LRI Calculator Software

High technology IOLs like the ReZoom[®] and TECNIS[®] lenses have made it possible to rejuvenate patient vision. To maximize the "wow" factor with these lenses, it may be necessary to correct astigmatism during cataract surgery to less than 0.5 D.

The simple and free AMO LRI Calculator software will assist you in pre-operative planning for limbal relaxing incision (LRI) procedures, which are simple and effective. The recommended use of this program includes inputting the requested patient information, printing out the resulting diagram, and making your incision.

Click "CONTINUE" to proceed

TECNIS[®]
ASPHERIC IOL **1**

TECNIS[®]
MULTIFOCAL IOL **1**
DIFFRACTIVE ASPHERIC

click here for
**IMPORTANT SAFETY
INFORMATION**

click here for
**IMPORTANT SAFETY
INFORMATION**

continue

LRI CALCULATOR (AMO)



LRIcalculator.com



LRI CALCULATOR SOFTWARE LICENSE AGREEMENT, TERMS OF USE, AND PRIVACY POLICY

This calculator is intended to support the use of manual LRIs only, it is not intended for the calculation of femtosecond laser incisions.

cancel

accept

i. OWNERSHIP:

The Calculator is owned by AMO and/or its affiliates and is protected by United States copyright laws and international treaty provisions. Licensee may not reverse engineer, decompile, or disassemble the Calculator, except to the extent the foregoing restriction is expressly prohibited by applicable law. Licensee may not make error corrections to, or otherwise adapt or modify, or create derivative works based upon the Calculator. The License below defines the extent of Licensee's rights with respect to the Calculator.

decline

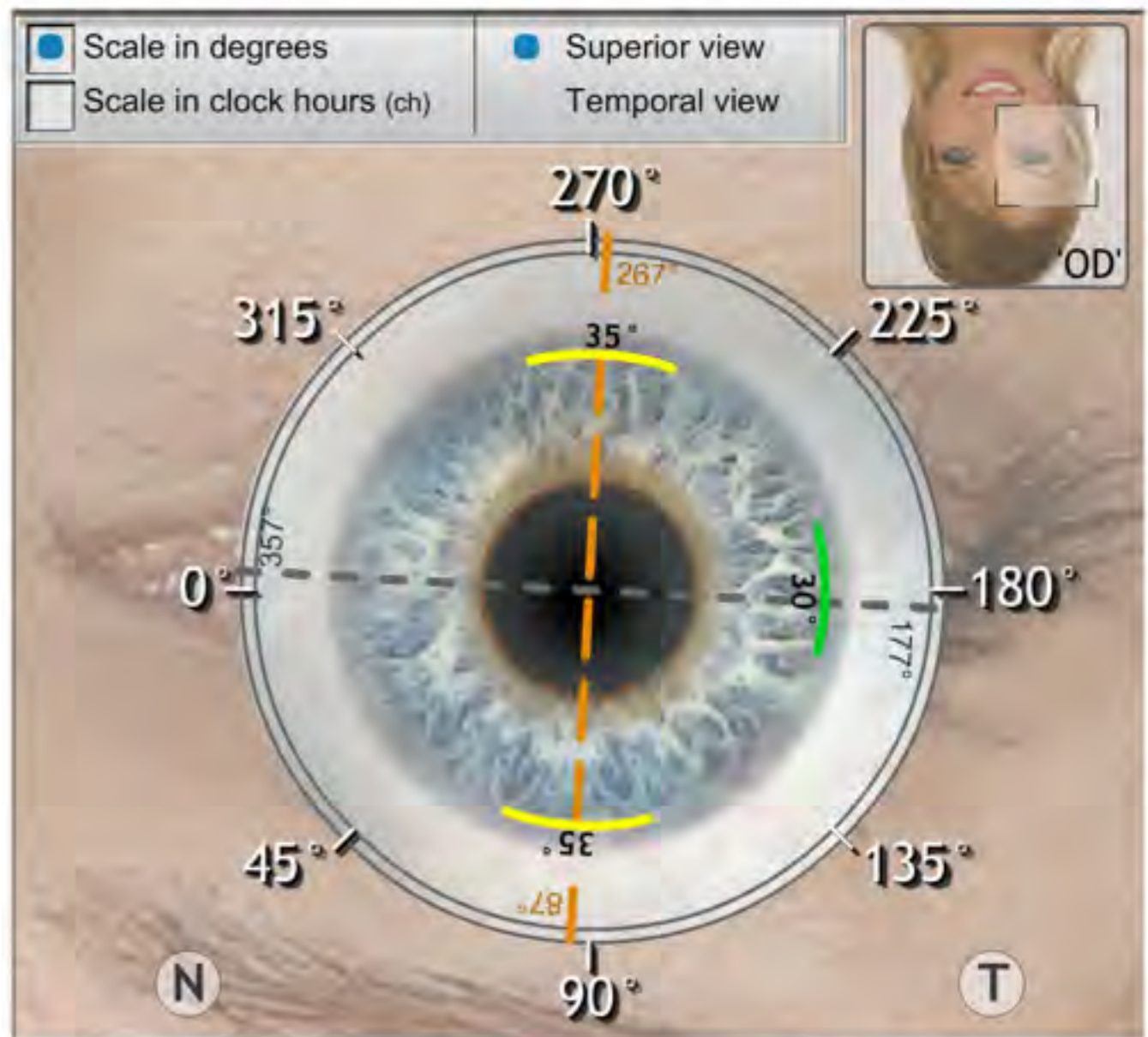
accept



Doctors Name JBR
Patient Name or ID SD
Patient Age 64

Nomogram Selection **Donnenfield Nomogram**
Eye Selection **OD - Right Eye**
Steep Meridian 85 /265
Flat Meridian 175 /355
Steep K 44.60 D
Flat K 44.00 D
Preoperative Astigmatism 0.60 D
Thinnest Corneal Depth microns
Surgically Induced Cylinder 0.30 D
Incision Location (IL) 180 °

New-Steep K: 44.75D	New-Flat K: 43.85D	(After Phaco)
Astigmatism: 0.90D	Treatment: 1.00D	
LRI-Incision(s): 2	Incision Size: 35°/1.2 c.h.	
Residual Astigmatism after LRI: -0.10D		



— Phaco	— New Steep Axis 87 /267
— LRI 69.5°-104.5° / 249.5°-284.5°	- - - New Flat Axis 177 /357

ⓘ This tool uses vector analysis and assumes the phaco incision will shift the Steep and Flat Meridians as shown above.

LenSx Procedure Form

Patient Info:

SD

Eye: **OD** OS

Lens: Chop Cyl **Frag**

Prim. Incision Pos. (dgr): 180

Prim. Incision Width (mm): 2.6

Cornea Arcuate

Number of arcs: 0 1 **2**

Arc Diameter (mm): 9

Arc 1 position (dgr): 87

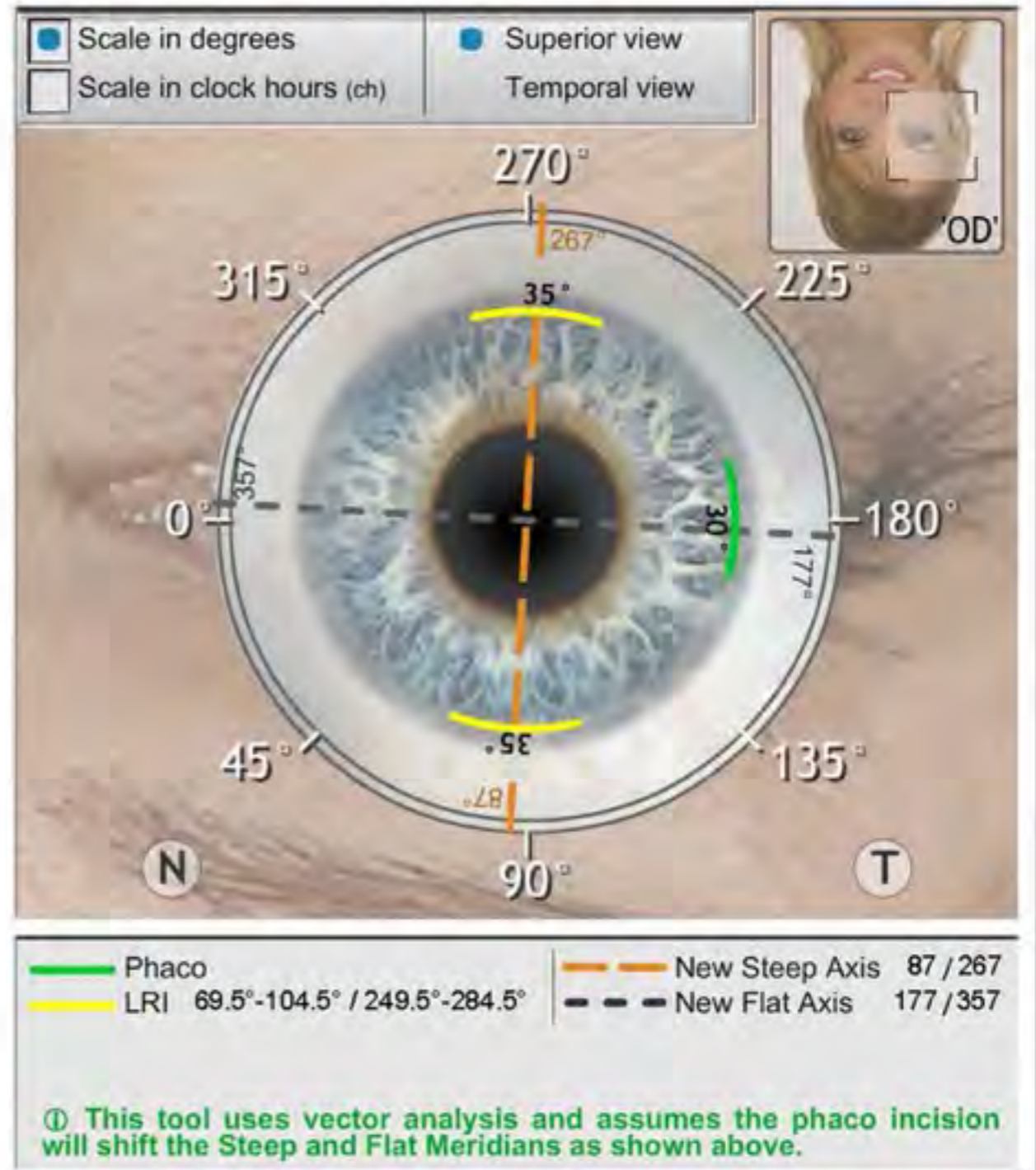
Arc 1 angle (dgr): 25

Arc 2 angle (dgr): 25

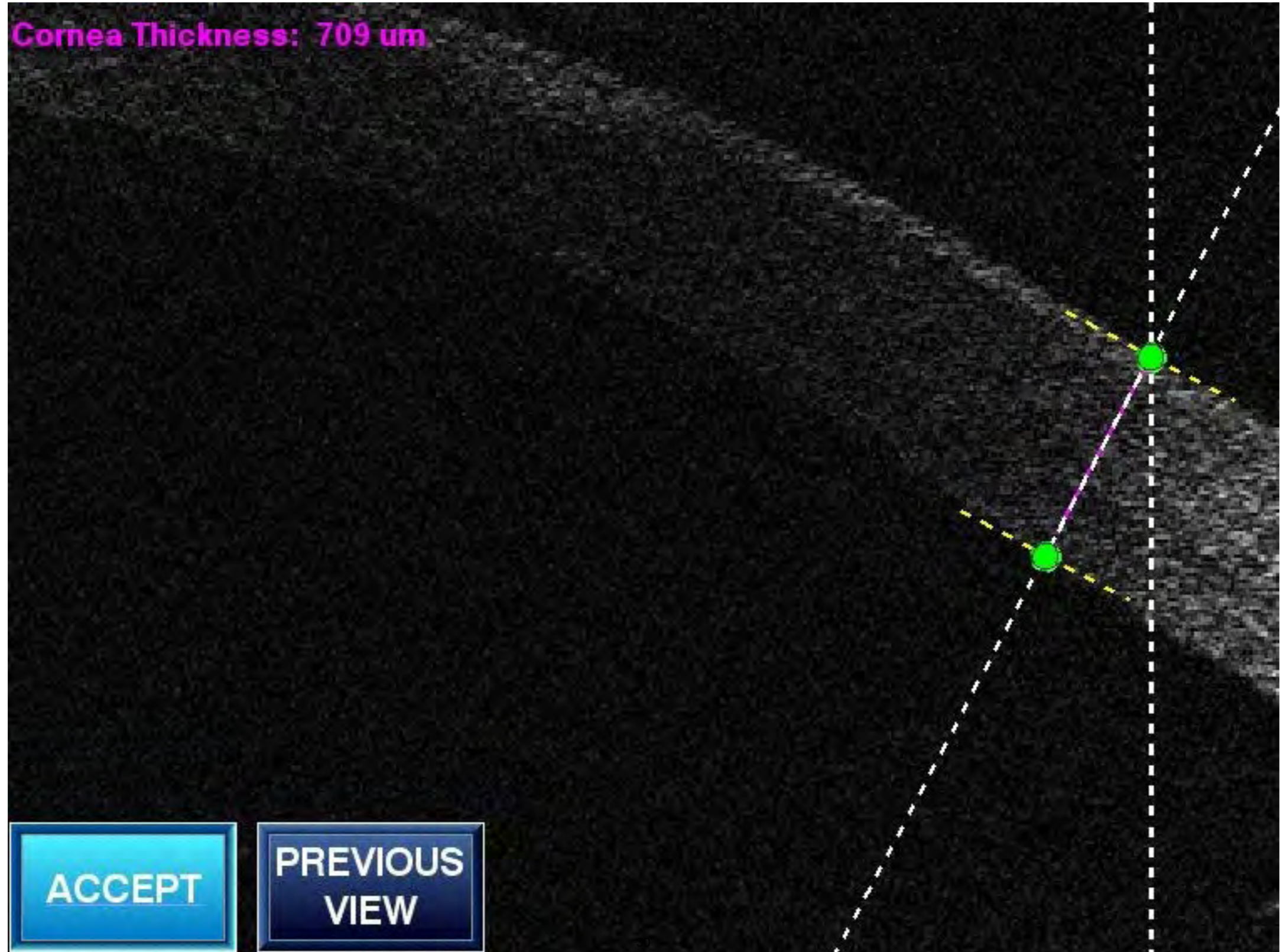
com



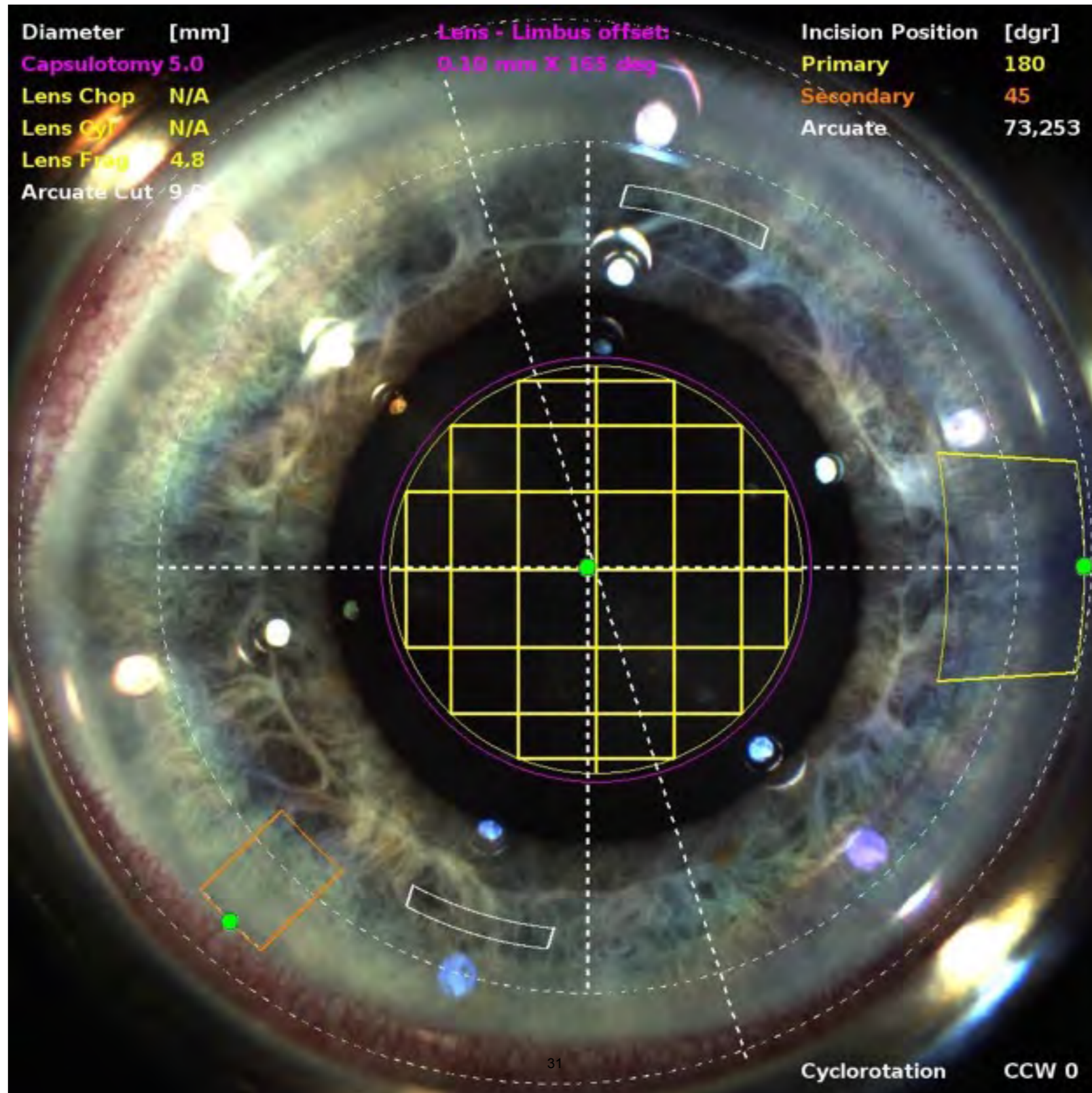
[View Nomograms](#) |
 [Help & Tutorial](#) |
 [License Agreement & Privacy Policy](#)



ARCUATE INCISIONS

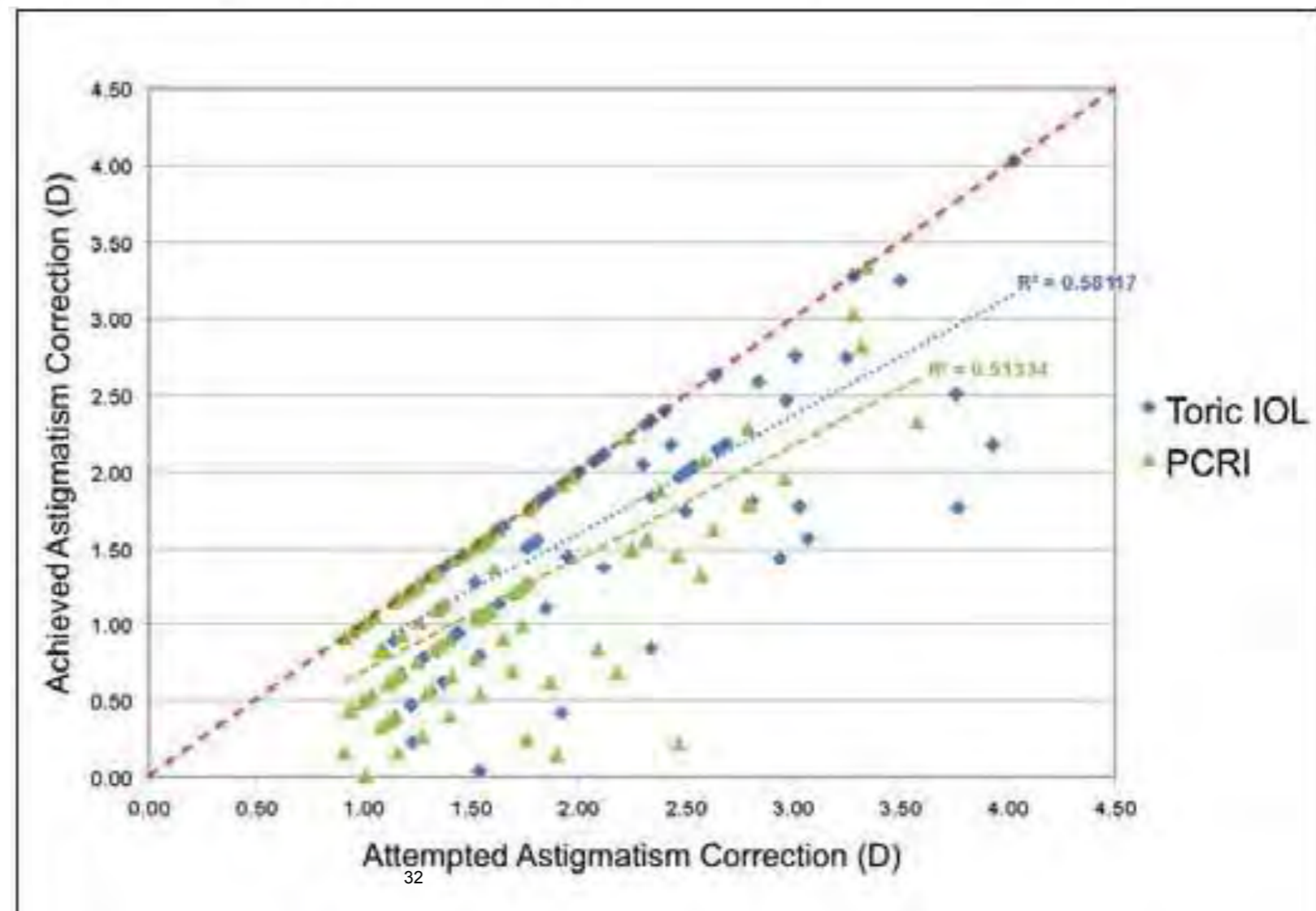


TREATMENT PATTERN

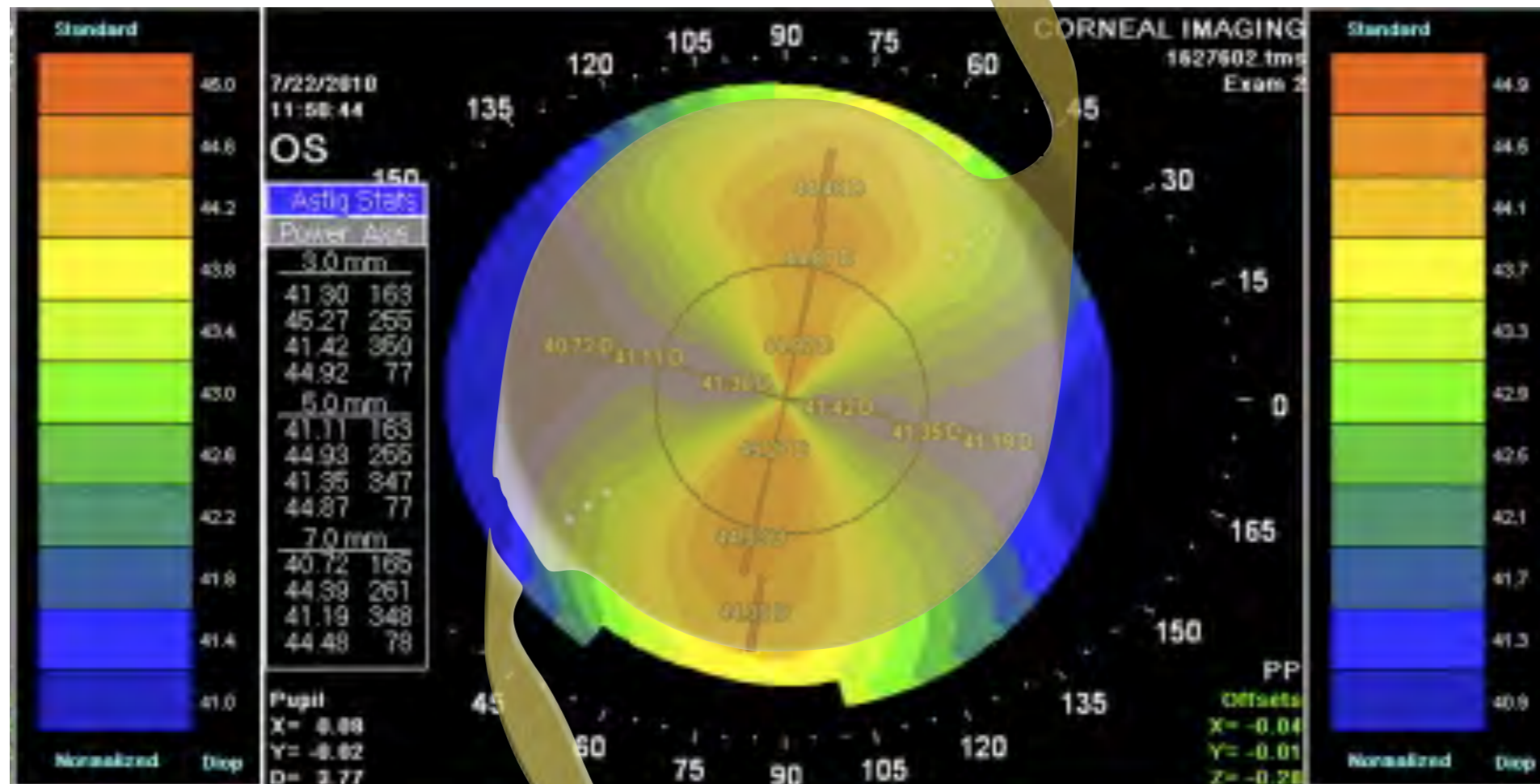


Correction of Astigmatism During Cataract Surgery: Toric Intraocular Lens Compared to Peripheral Corneal Relaxing Incisions

Jed T. Poll, MD; Li Wang, MD, PhD; Douglas D. Koch, MD; Mitchell P. Weikert, MD



TORIC IOLS





AcrySof Toric



Staar Toric



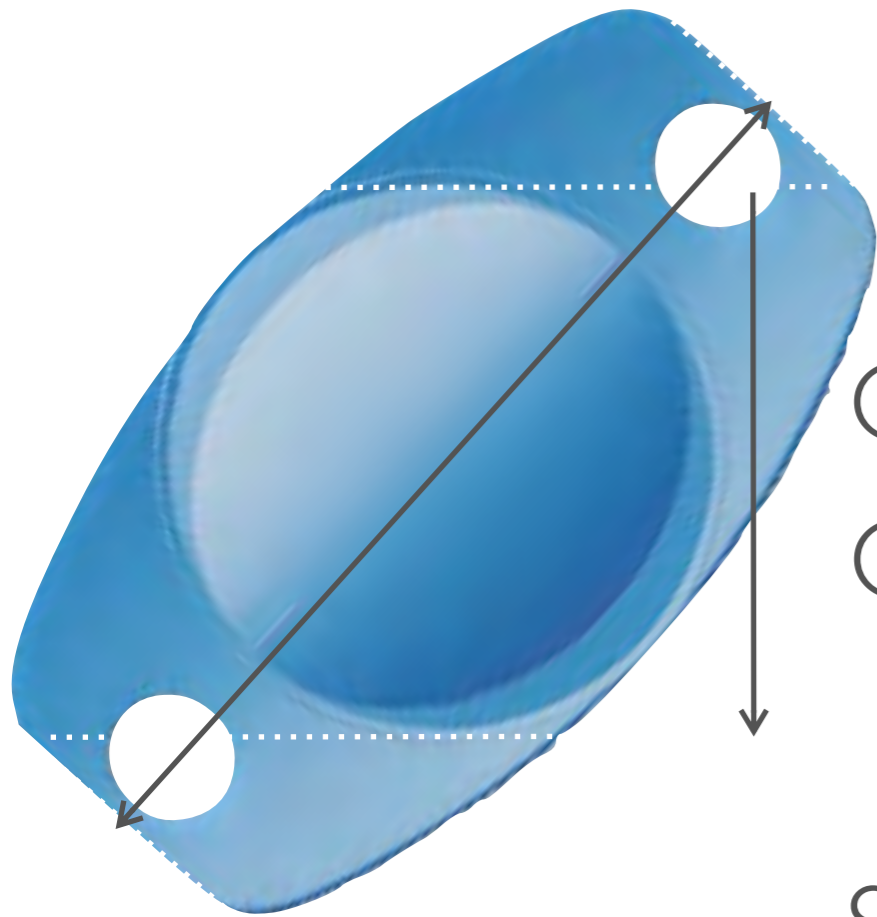
Trulign Toric



Tecnis Toric

STAAR TORIC

TL



Suggested A constant: 118.5

Optic diameter: 6.0 mm

Overall length 11.2 mm

Biconvex Toric Aspheric optic

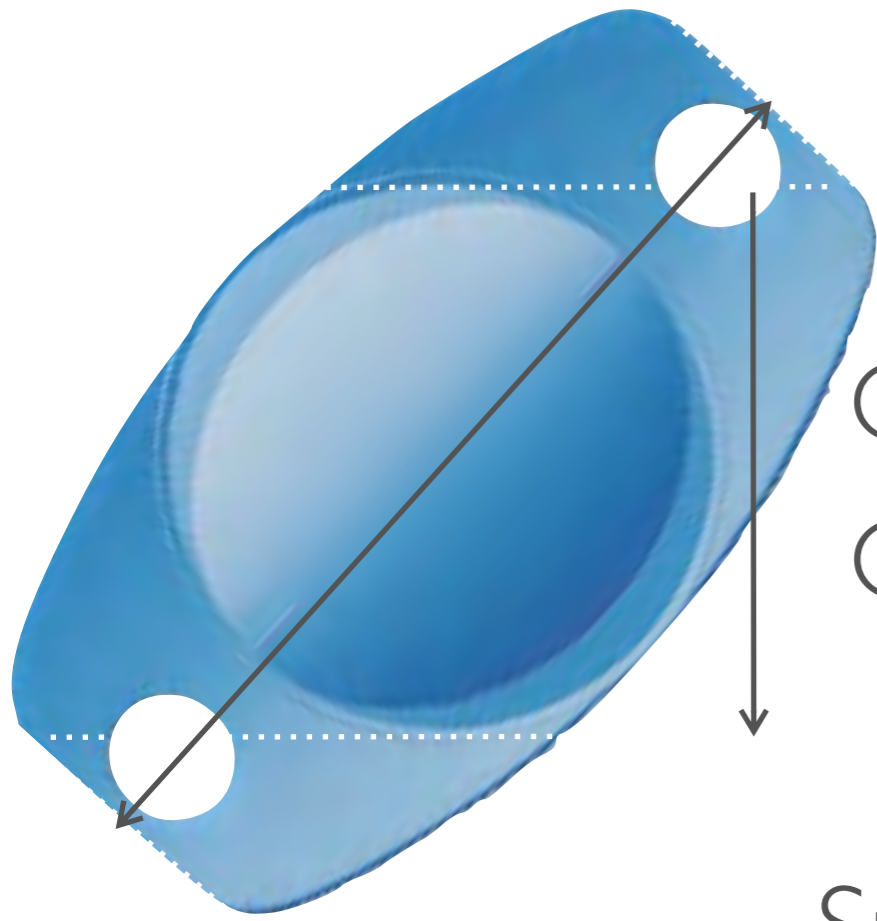
Spherical Power from +9.5 to +23.5 D

Cylindrical Power +2.0 and +3.5 D

Single plate. Silicone

STAAR TORIC

TF



Suggested A constant: 118.5

Optic diameter: 6.0 mm

Overall length 10.8 mm

Biconvex Toric Aspheric optic

Spherical Power from +24.0 to +28.5 D

Cylindrical Power +2.0 and +3.5 D

Single plate. Silicone

Power in corneal plane
 Optic up:
 +1.3 and +2.3 D

Power in corneal plane
 Optic Down:
 +1.2 and +2.1 D

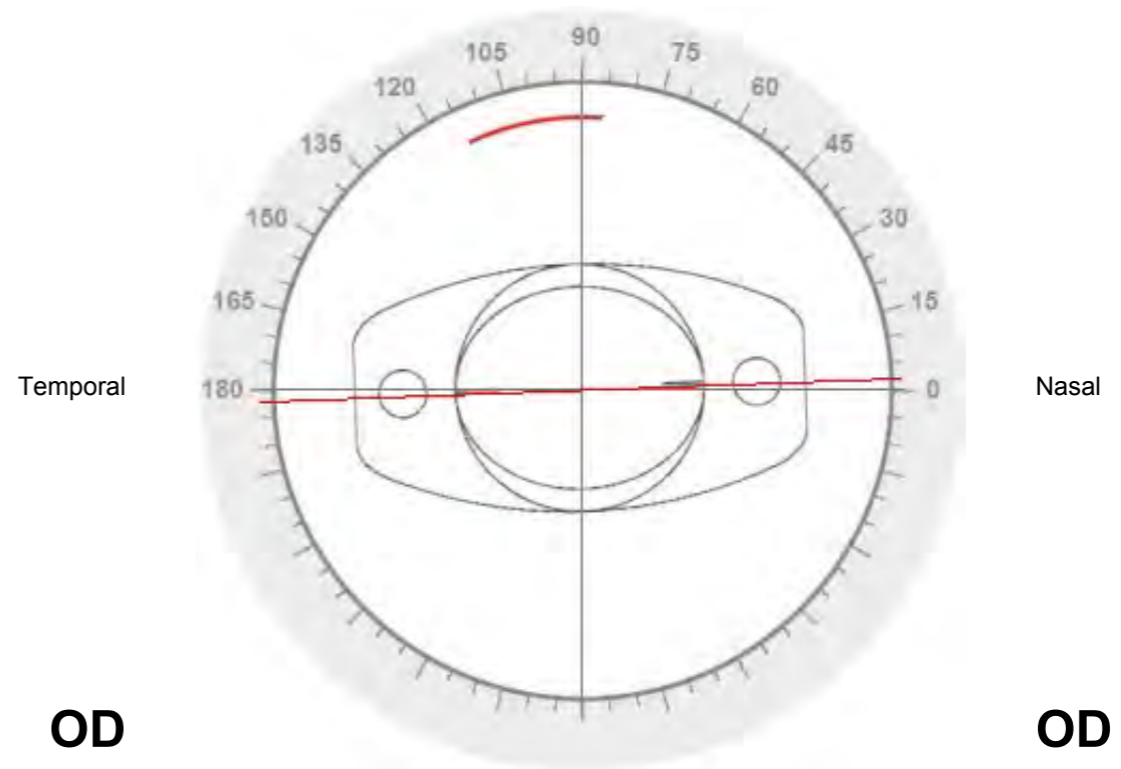


**PreVize Optimized
 STAAR Toric IOL Power
 Calculation**



Version 4.1.2
 Moran Research and Consulting, Inc
 (c) 2003-2012. Revision 5.80

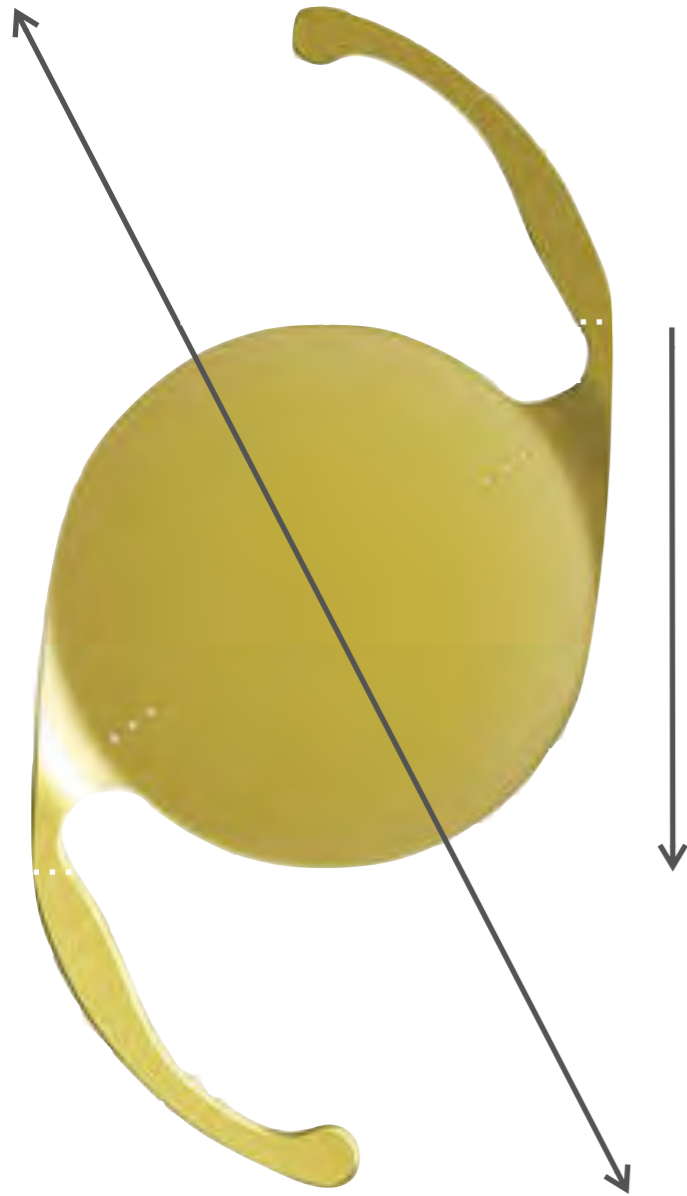
Patient Name: Rad Brandleman Date: 05/01/2013
 Eye: Right Ker. Index: 1.3375
 Keratometry: 43.50 @ 090, 45.50 @ 000 Vtx: 13.00 mm
 Axial Length: 24.00 mm Incision SIA: +0.50 D
 Incision: 100 Deg



The STAAR Toric AA4203T(F/L) IOL is available in spherical powers from 9.5 D to 28.5 D (0.5 D increments) with toric adds of 2.0 D to 3.5 D (1.5 D increments).

Model	IOLS	IOLC	IOLA	Predicted Refraction	SE
AA-4203TL	23.0	3.50	002	+0.15 +0.68 X 002	+0.49
AA-4203TL	23.0	2.00	002	-0.23 +1.43 X 002	+0.49

Alcon AcrySoft Toric IOL



Suggested A constant: 119

Optic diameter: 6.0 mm

Overall length 13.0 mm

Biconvex Toric Aspheric optic

Spherical Power from +6.0 to +30.0 D

Different Cylindrical Powers..

Single piece. Hydrophobic Acrylic

AcrySoft Toric IOL

Power in Corneal Plane

SN60T3 1.03

SN60T4 1.55

SN60T5 2.06

SN60T6 2.57

SN60T7 3.08

SN60T8 3.60

SN60T9 4.11

Alcon

Alcon does not receive or retain any patient data. Please print a copy of the final output for your records. Contact your Alcon representative for available AcrySof® Toric IOL models. Print

Lens Recommendation

Doctor & Patient Information	
Doctor Name	Dr. Smith
Patient Information	Mr. Jones
Eye Selection	OS (Left)

Lens Details	
AcrySof® Toric IOL	SN60T4
IOL Spherical Equivalent (SE)	21.0 D
Axis of Placement	36°
IOL Cylinder (Cyl)	2.25 D

Calculation Details	
Pre-op Corneal Cylinder:	2.20 x 30°
Surgically Induced Cylinder:	0.50 x 90°
Crossed-Cylinder Result (corneal plane):	2.00 x 36°
Crossed-Cylinder Result (IOL plane):	2.92 x 36°

IOL: SN60T4 21.0D SE, Cyl:2.25D @ 36°
 Flat K:41.60D @ 120° Steep K:43.80D @ 30°
 P-IOL:21.0D SIC:0.50D IL:0° [V:2.0.2]
 1951f1dbf022fcb840d017cacb1fc3 3/2/06 18:19:55
 N: Nasal T: Temporal

Pre-Op Information

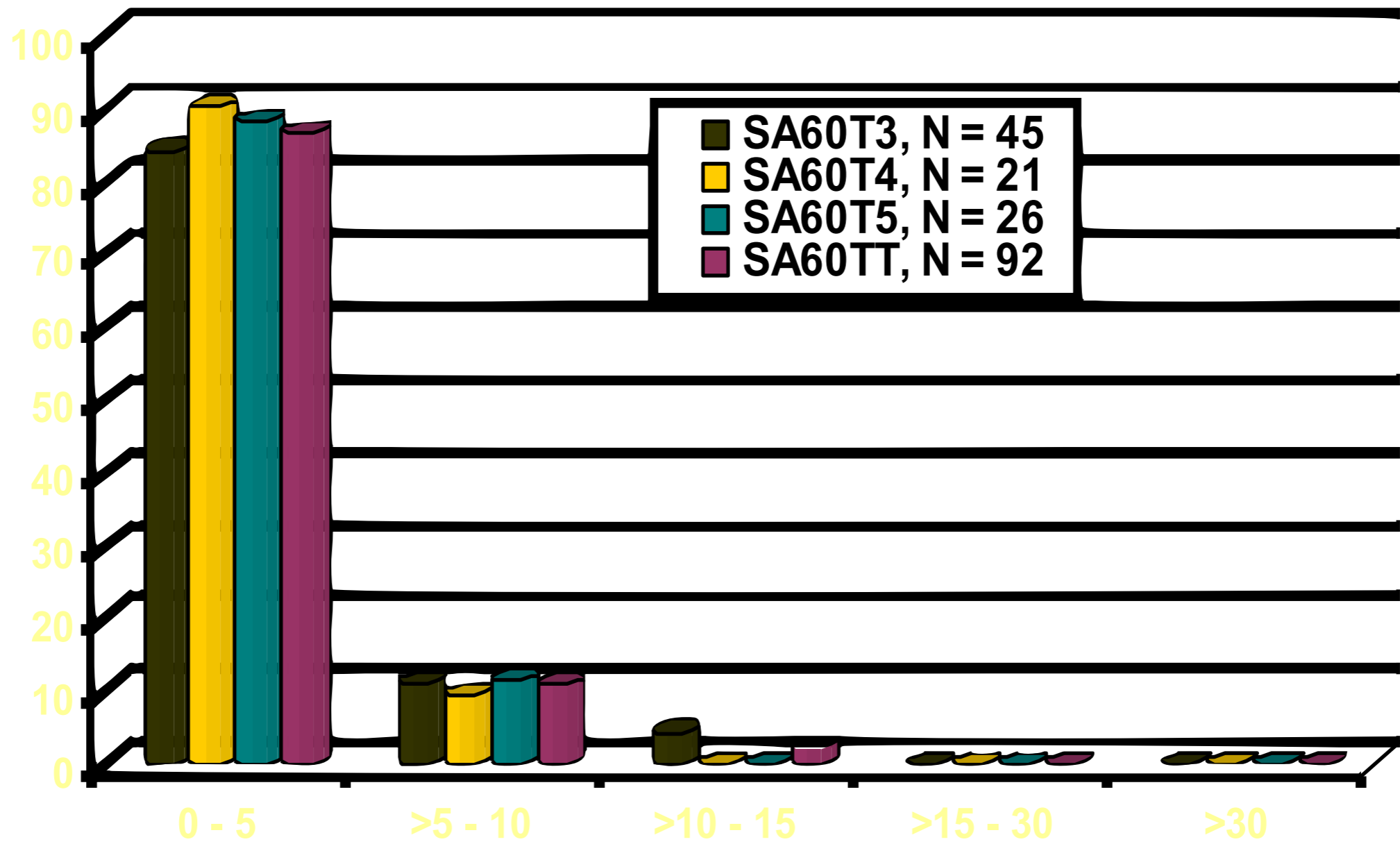
Patient Data	
Flat K	41.60 D
@ Flat Meridian	120°
Steep K	43.80 D
@ Steep Meridian	30°
IOL Spherical Power (P-IOL)	21.0 D
Surgically Induced Cylinder (SIC)	0.50 D
Incision Location (IL)	0°

Flat K:41.60D @ 120° Steep K:43.80D @ 30°
 P-IOL:21.0D SIC:0.50D IL:0° [V:2.0.2]
 1951f1dbf022fcb840d017cacb1fc3 3/2/06 18:19:55

Steep
 Flat
 Incision

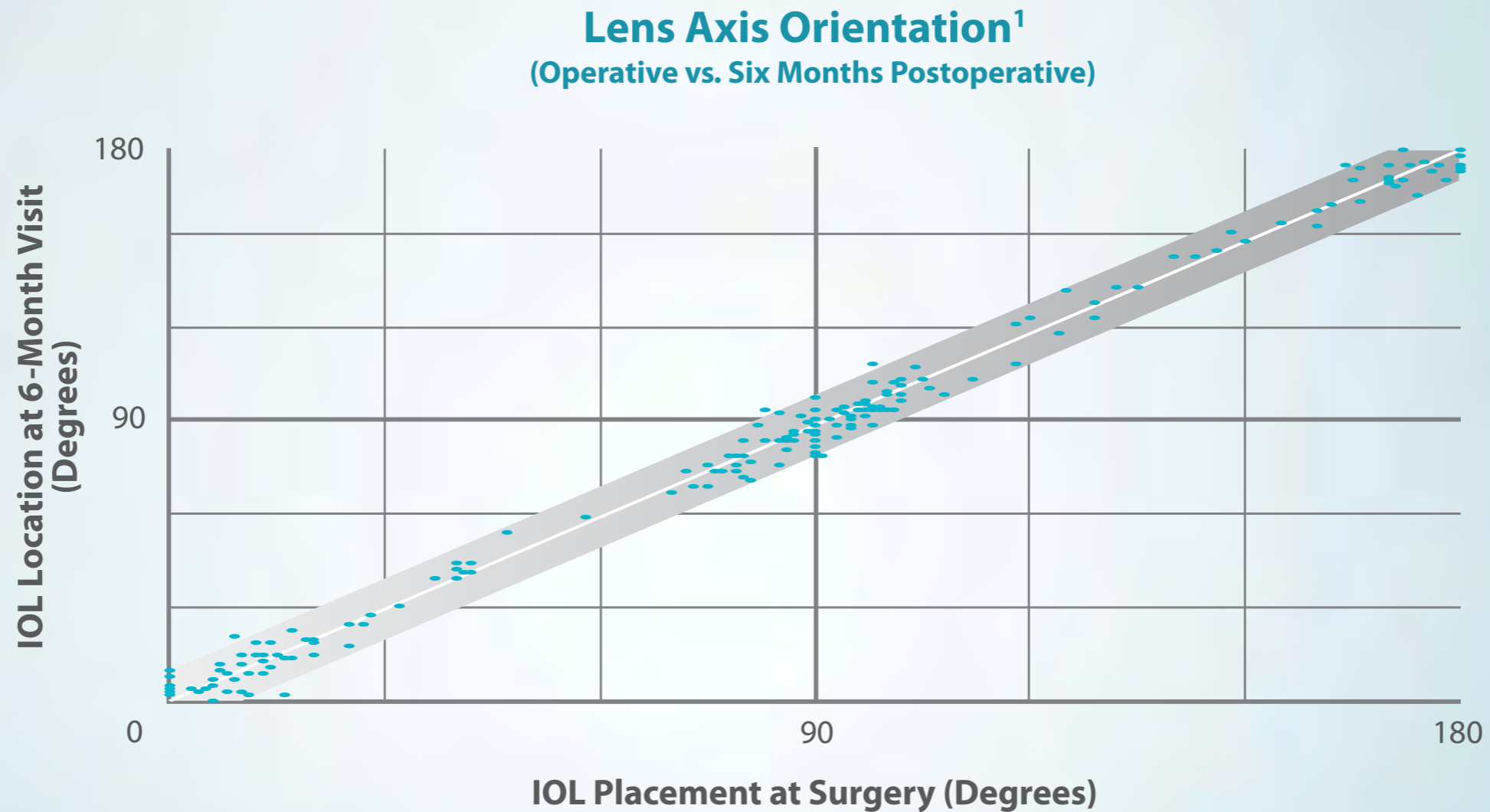
Notes:
 1951f1dbf022fcb840d017cacb1fc3 3/2/06 18:19:55
 V: 2.0.2

Calculator | Tutorial | Help | Privacy Policy & Legal Terms

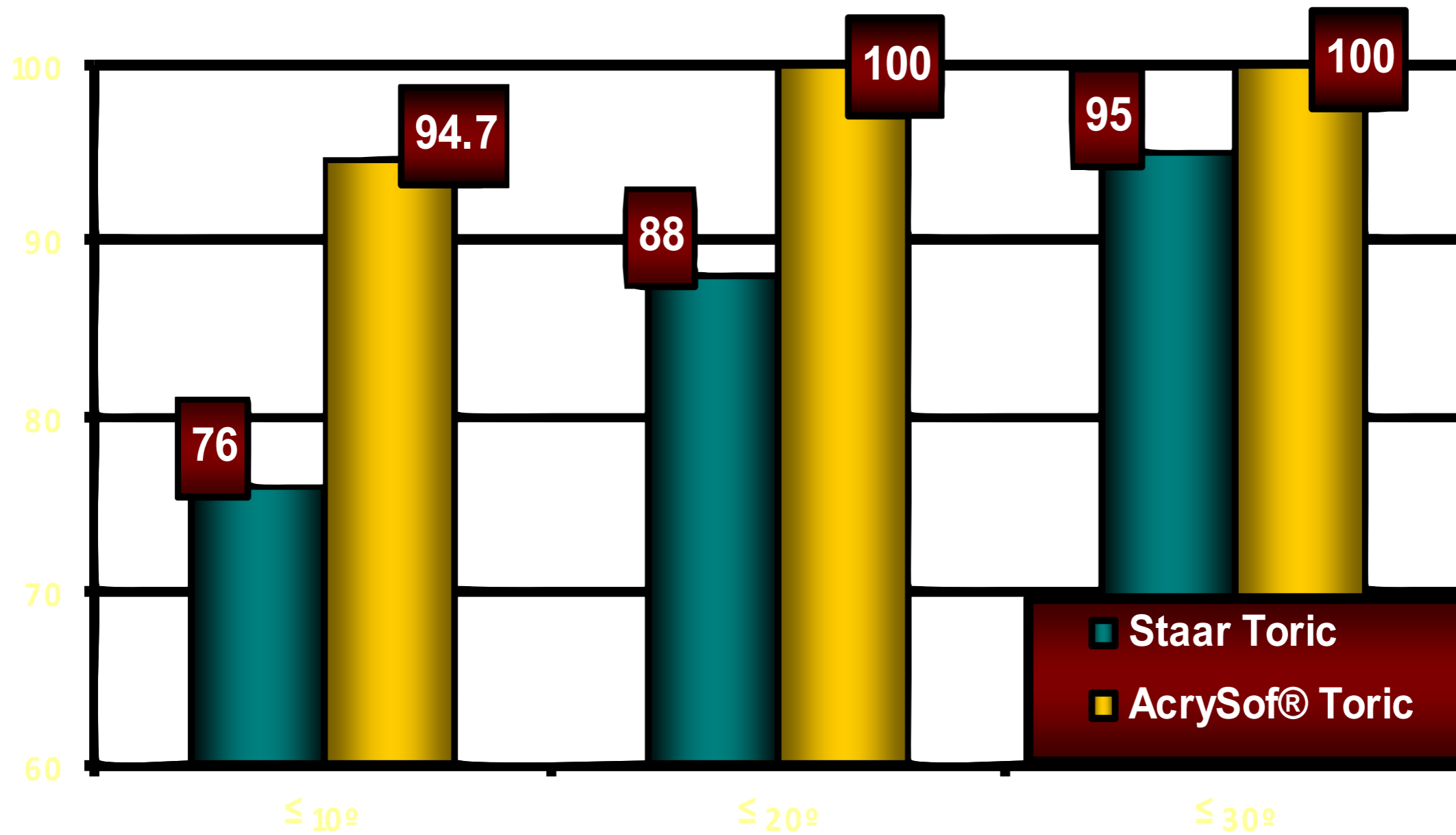


Degrees Rotation from Surgical Placement to 30 - 60 Day Visit

AcrySoft Toric IOL



81.1% of patients were $\leq 5^\circ$ of intended axis,² and 97.1% were $\leq 10^\circ$ of intended axis.¹



Abbott Tecnis Toric IOL

Suggested A constant: 118.8

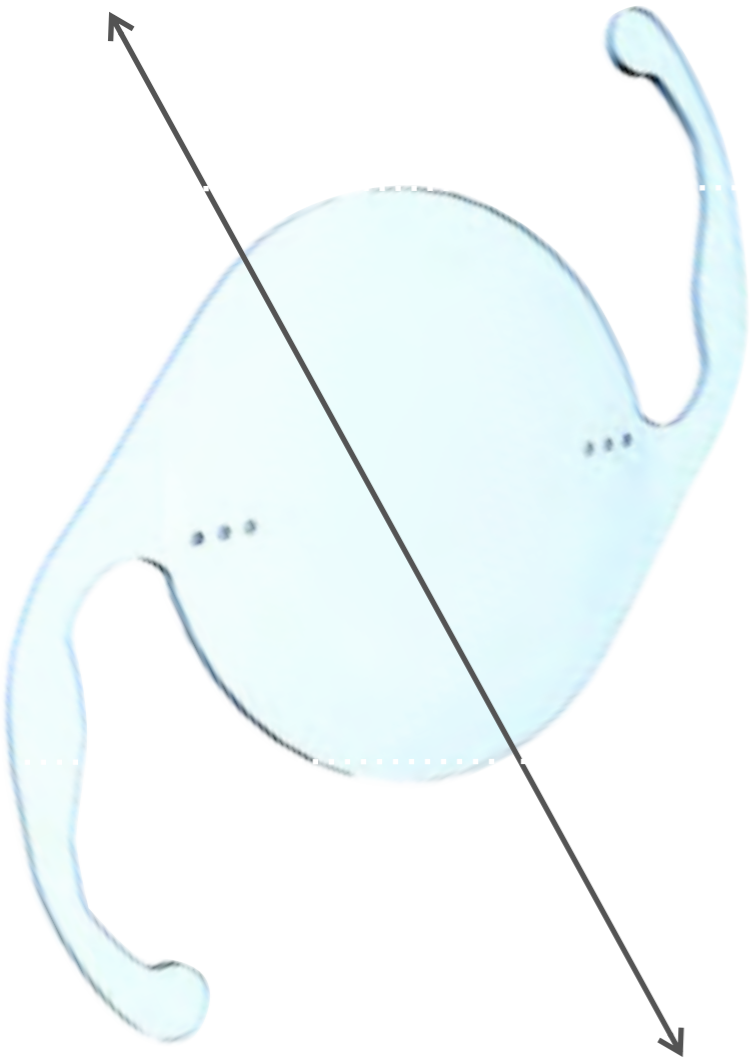
Optic diameter: 6.0 mm

Overall length 13.0 mm

Biconvex Toric Aspheric optic

Spherical Power from +5.0 to +34.0 D

Single piece. Hydrophobic Acrylic



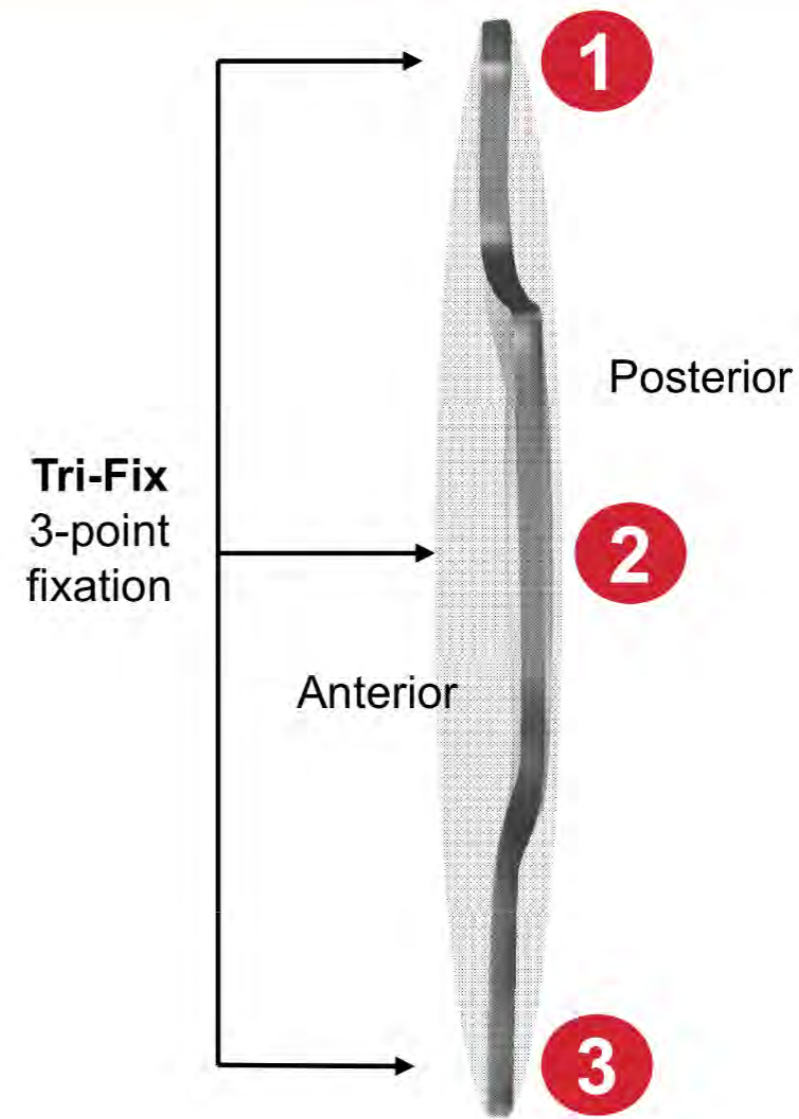
TECNIS TORIC IOL



Align the marks with the steep corneal meridian

TECNIS TORIC IOL

- 3-point fixation provides:
 - Constant capsular contact
 - Additional stability over traditional single-piece lenses
- Offset haptic design enables the lens to adhere to the posterior capsule



Tecnis Toric IOL

Power in Corneal Plane

ZCT150 1.03

ZCT225 1.54

ZCT300 2.06

ZCT400 2.74

ZCT450 3.08

ZCT525 3.60

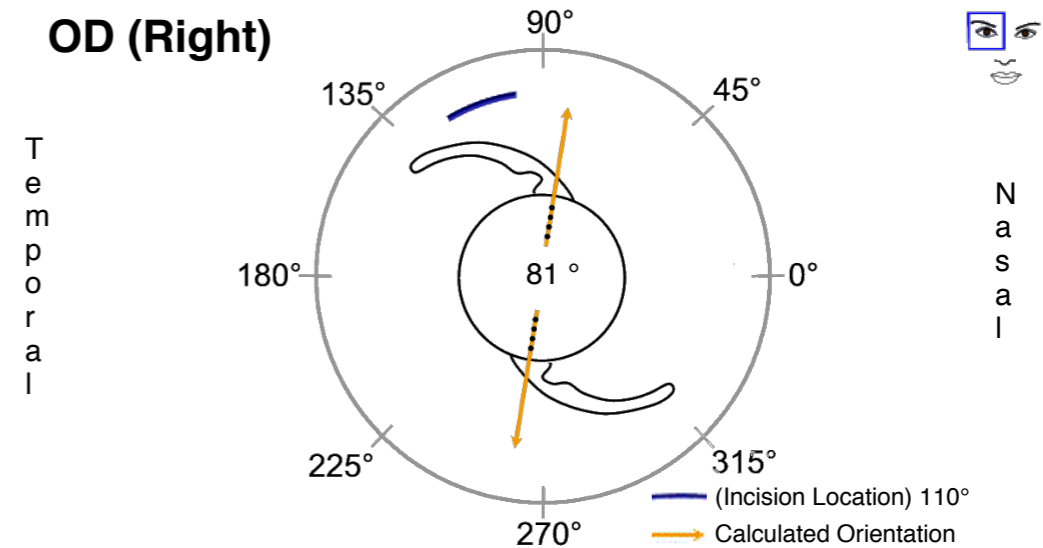
ZCT600 4.11



[Return To Calculator](#)

Surgeon Name	Patient Information	Date	Patient Age
Claudia Perez	Rad Brandleman	02.05.2013	43

OD (Right)



IOL Details		Residual Refraction	
IOL Model	Orientation	Cylinder	Axis
ZCT225	81 °	+0,04 D	81°

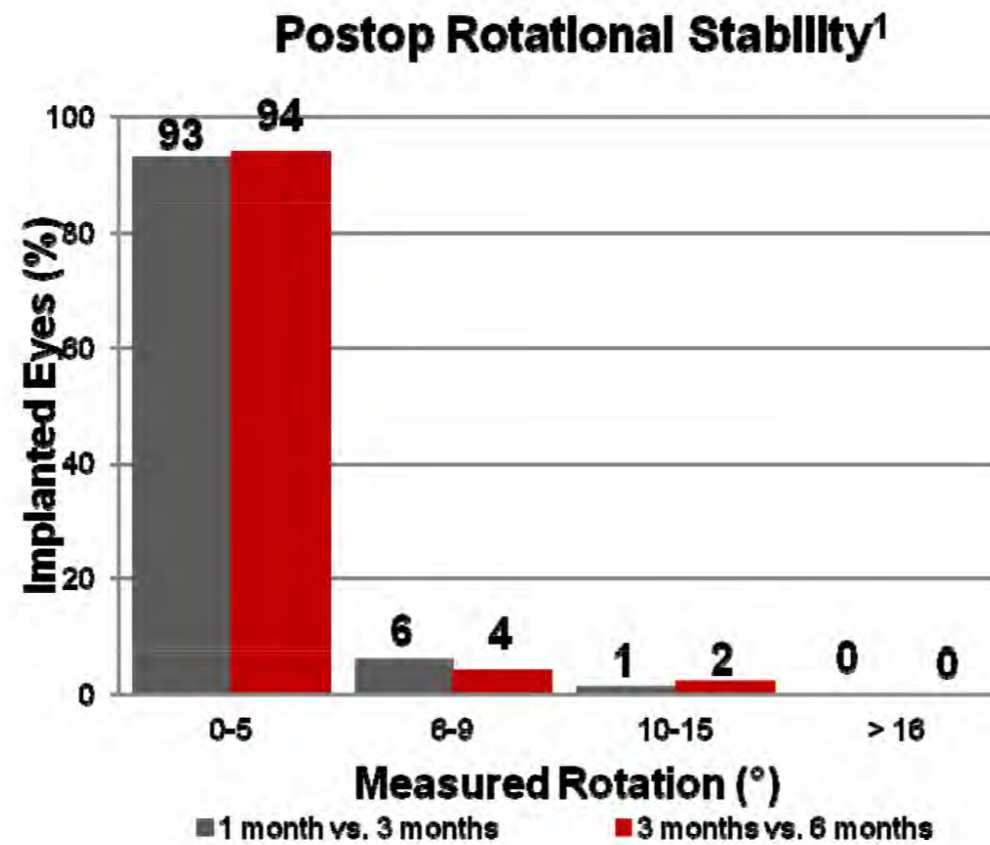
Calculation Details		
SE IOL power	K Index	Refractive Cylinder Convention
+22,50	1,3315	Plus

Keratometry and Biometry					
Flat K1 @ Axis	Steep K2 @ Axis	SIA @ Axis	AxL Length	Biometry Method	A-constant
43,00@180°	45,00@90°	0,75@110°	24,5	Optical	119,30

IOL Details		Residual Astigmatism	
IOL Model	Orientation	Cylinder	Axis
ZCT150	81 °	+0,58 D	81 °
ZCT225	81 °	+0,04 D	81 °
ZCT300	81 °	+0,49 D	171 °

TECNIS TORIC IOL

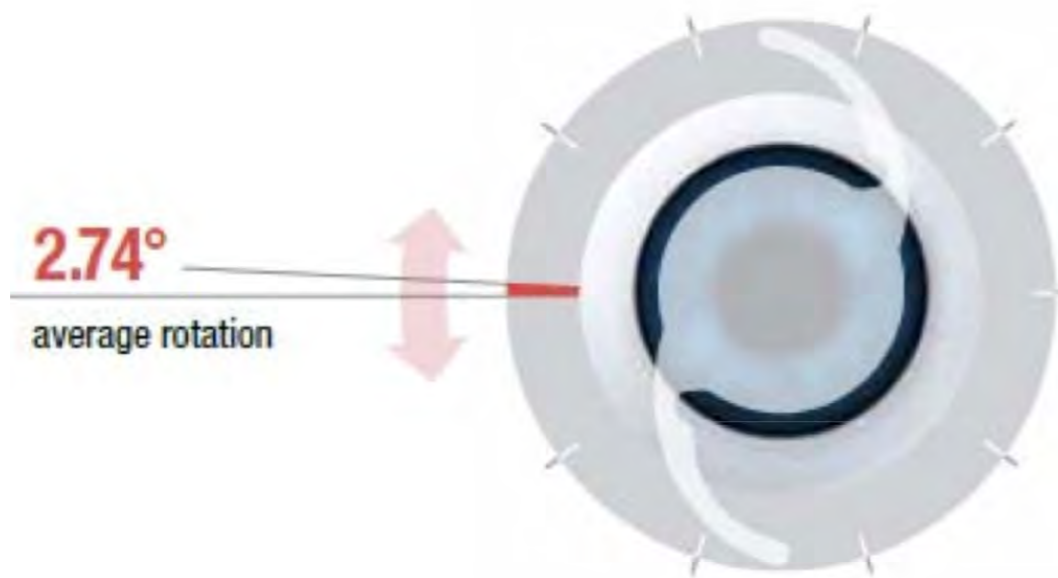
94% of eyes implanted with **TECNIS®** Toric IOLs had a change in axis of $\leq 5^\circ$ between two consecutive visits approximately three months apart¹



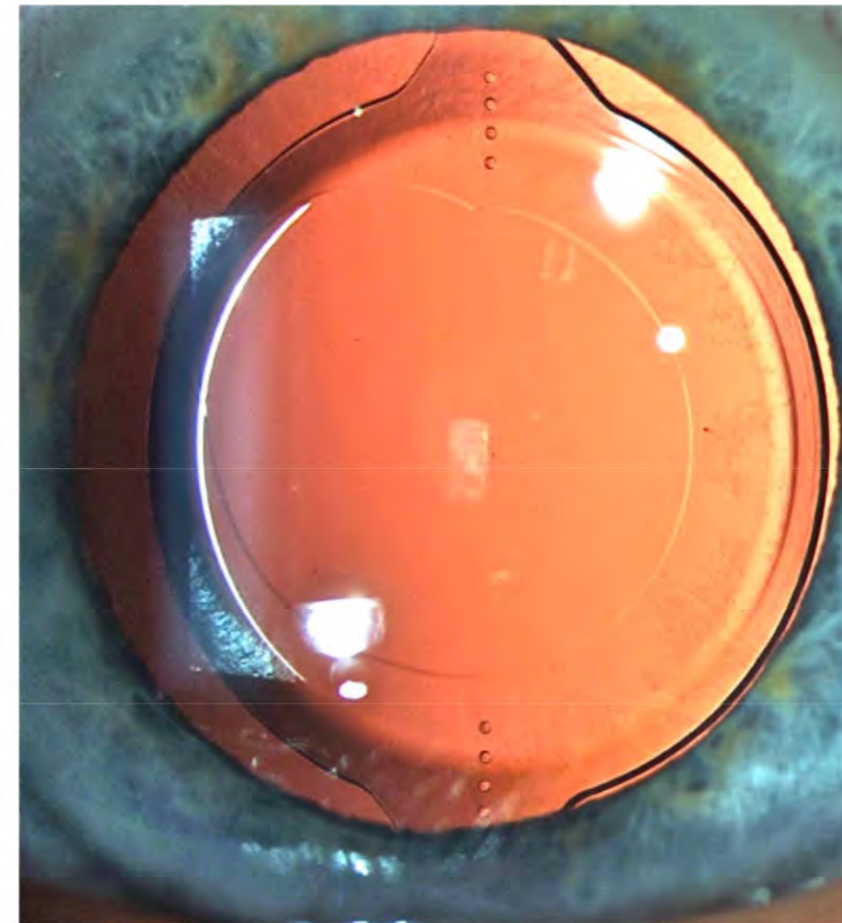
1. TECNIS Toric IOL Foldable Posterior Chamber Intraocular Lenses [package insert]. Santa Ana, Calif: Abbott Medical Optics Inc.

TECNIS TORIC IOL

Mean axial rotation between baseline and six months was 2.74°¹



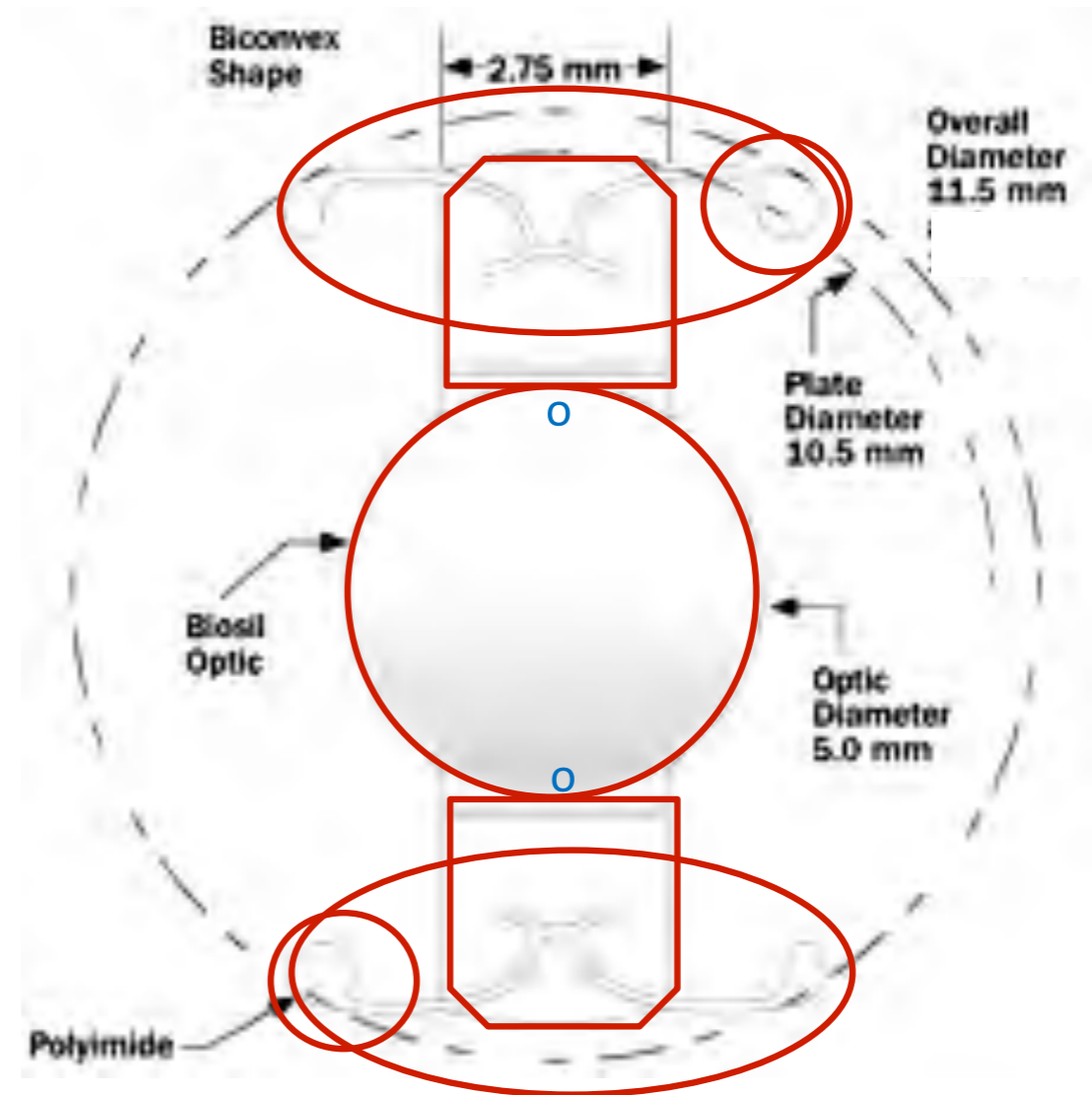
**Mean Axis Change Between
Baseline and Six Months¹**



1. TECNIS Toric IOL Foldable Posterior Chamber Intraocular Lenses [package insert]. Santa Ana, Calif: Abbott Medical Optics Inc.

B&L TRULIGN IOL

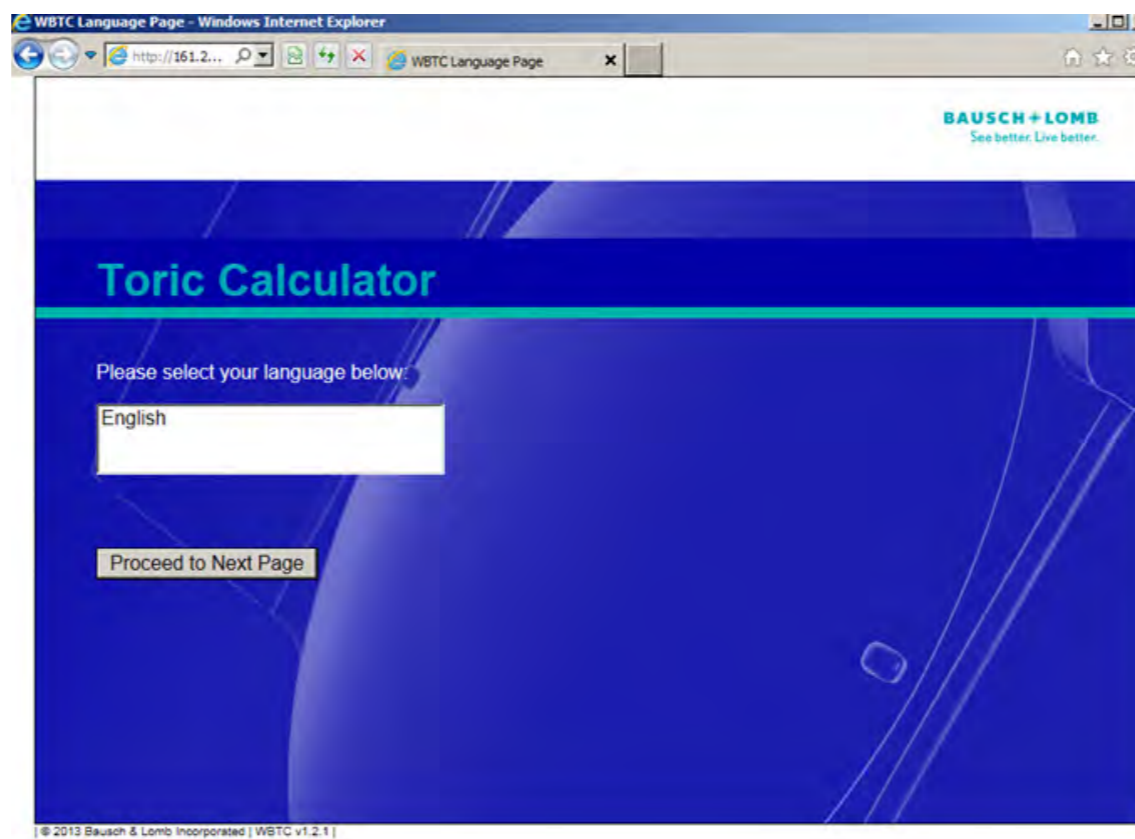
- 5.0-mm optic body
- Biconvex shape
- Rectangular hinged haptics
- Approved Dioptric power range from +4.00 to +33.00 D
- Cylinder powers 1.25, 2.00, and 2.75 D
- Round-to-the-right asymmetric polyimide loops



TRULIGN IOL

Toric Targeting

- The online TRULIGN™ Toric IOL Calculator will calculate toric IOL cylinder power and placement orientation, in order to best correct post-op refractive astigmatism



TRULIGN IOL

Model		Recommended Starting A-constant	Recommended Starting ACD	Overall Diameter	Available Now Diopter Power
TRULIGN™ Toric IOL	BL1UT	119.1*	5.61 mm*	11.5 mm	17.0 to 25.0 D in 0.50 D steps

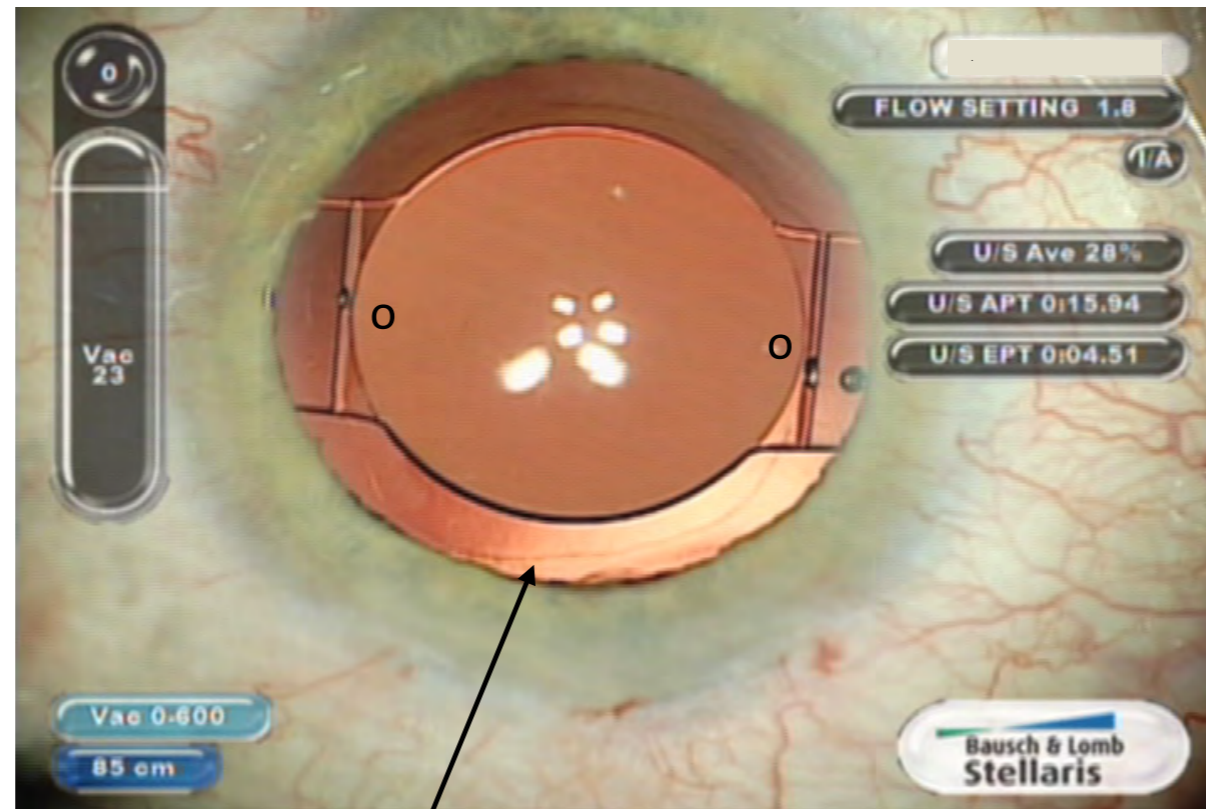
Cylinder powers–IOL plane	1.25, 2.00, 2.75 D
Cylinder powers–corneal plane	0.83, 1.33, 1.83 D
Optic body diameter	5.0 mm
Anterior surface	Aspheric with axis marks
Posterior surface	Aspheric toric (cyl at 1.25, 2.00, 2.75 D)
Material–body and plates	Silicone with enhanced UV protection; 10% UV cutoff at 400 nm
Material–loop (haptics)	Polyimide
Refractive index at 35° C	1.43
Edge design	360° posterior square edge
Delivery system	Crystalsert® IOL Delivery System

The Bausch + Lomb TRULIGN Toric posterior chamber IOL is a modified plate haptic lens with hinges across the plates adjacent to the optic. Axis marks on the anterior surface denote the flat meridian of the lens.

*A-constant and ACD are estimates only. It is recommended that each surgeon develop his or her own values.

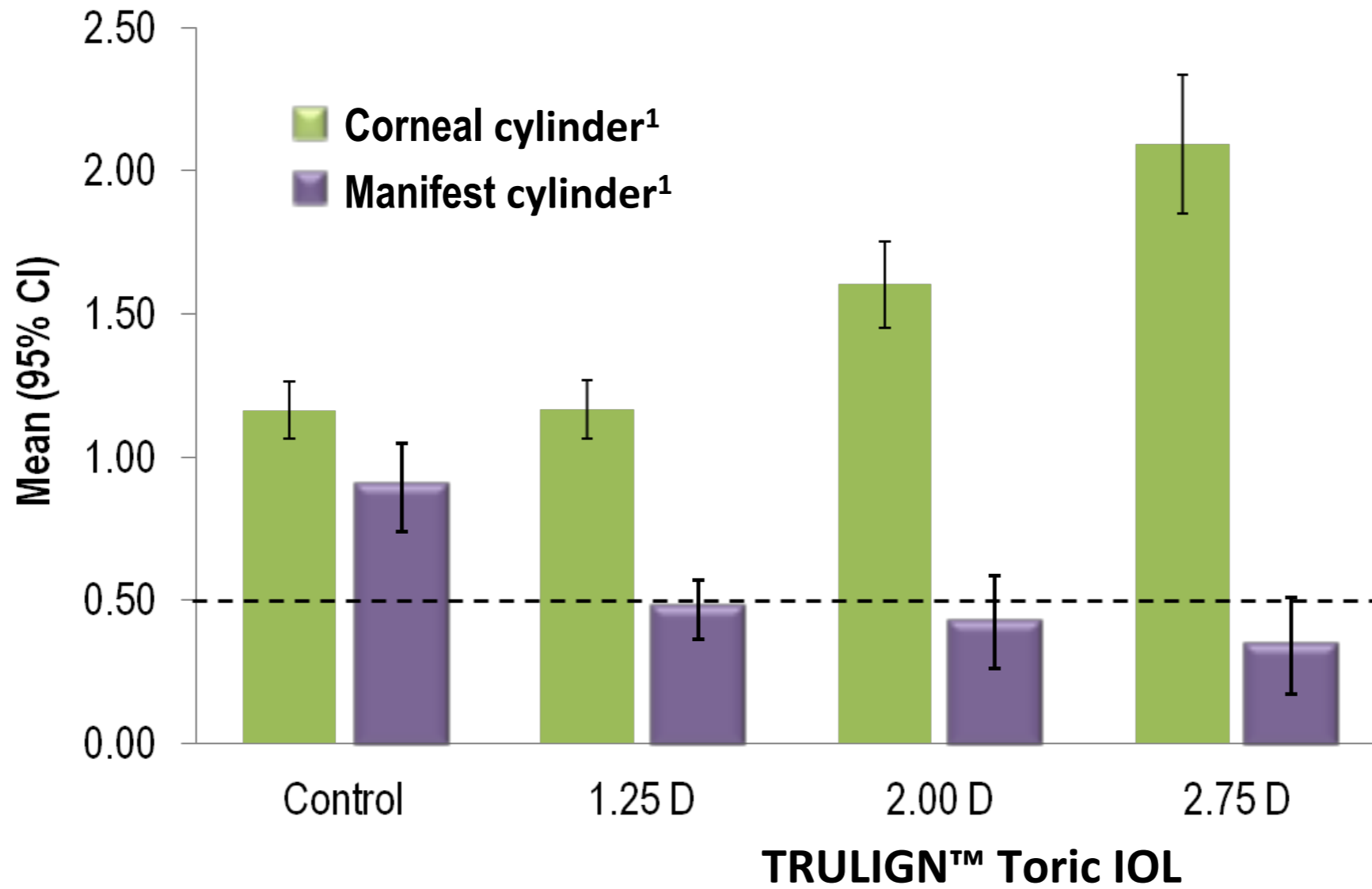
TRULIGN IOL

Create a symmetrical capsulorhexis of 5.5 to 6.0 mm



5.5- to 6.0-mm capsulorhexis—bigger than the optic and hinge, allowing free movement of the lens

TRULIGN IOL



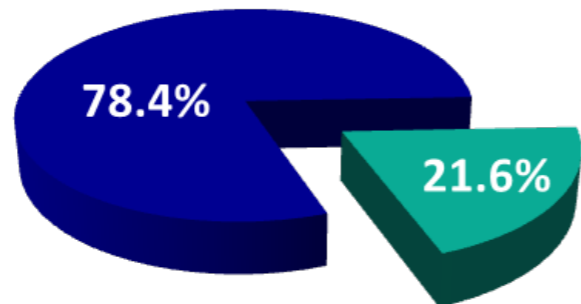
1.Data on file, Bausch & Lomb Incorporated. Study 650.

TRULIGN IOL

Cylinder correction accuracy. Results at 4 to 6 months.¹

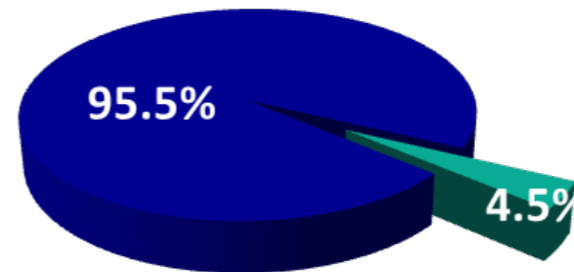
	Control IOL	Toric IOL			
		1.25 D	2.00 D	2.75 D	All Toric
Within 0.50 D of intended, %	44.1	79.7	79.5	71.4	78.4
Within 1.00 D of intended, %	72.1	96.0	92.3	100.0	95.5

■ Within 0.50D ■ Greater than 0.50D



All Toric

■ Within 1.00D ■ Greater than 1.00D



1.Data on file, Bausch & Lomb Incorporated. Study 650.

TRULIGN IOL

	Uncorrected Distance VA^{1*}	Uncorrected Intermediate VA^{1*}
≥ 20/25	72.4%	86.6%
≥ 20/32	86.6%	94.1%
≥ 20/40	97.8%	97.8%

***TRULIGN Toric IOL effectiveness cohort. Results at 4 to 6 months.**

1.Data on file, Bausch & Lomb Incorporated. Study 650.

Reference Marks



Axis Marks



Toric Reference Marker



Toric Axis Marker

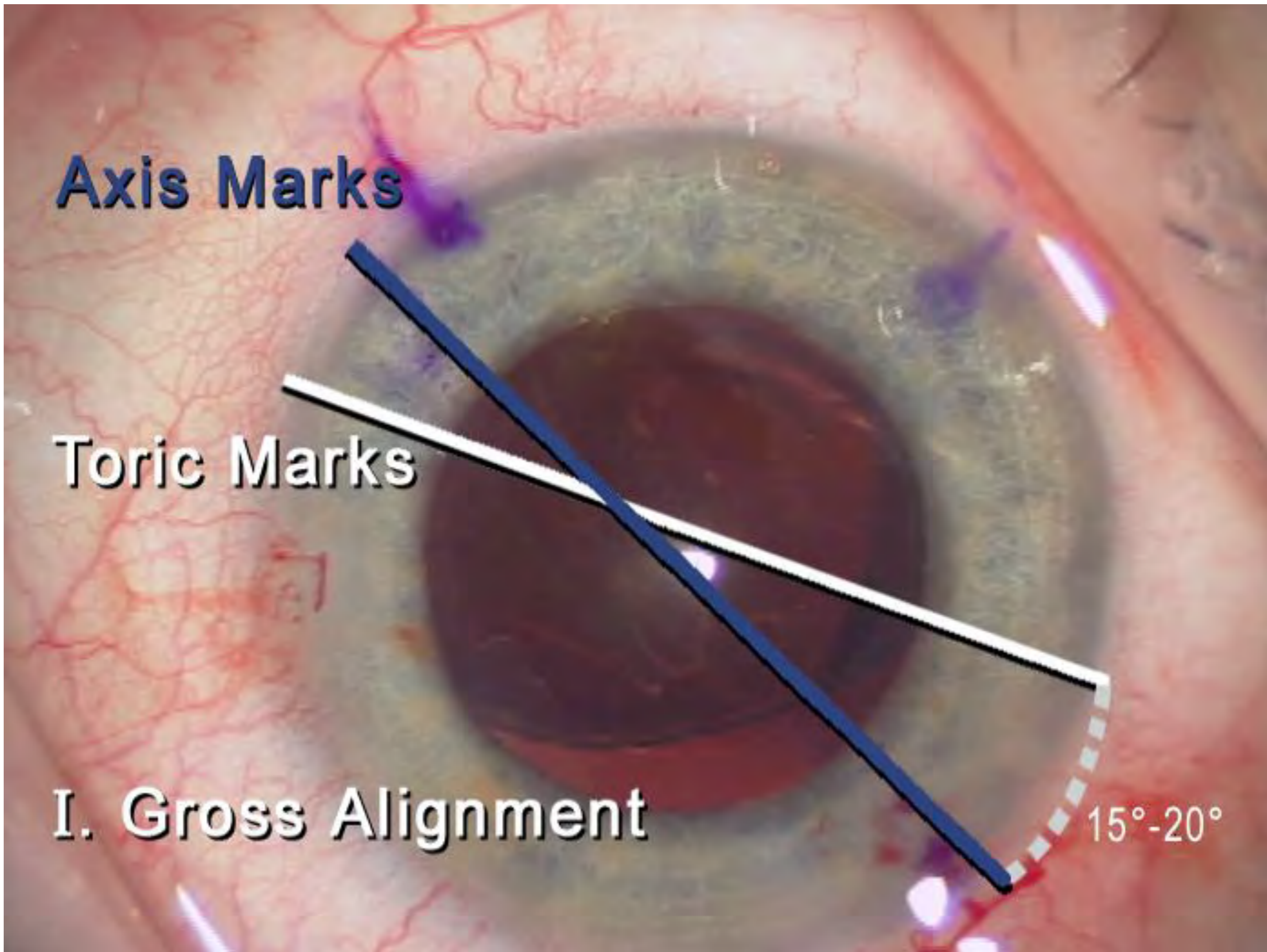


Axis Marks

Toric Marks

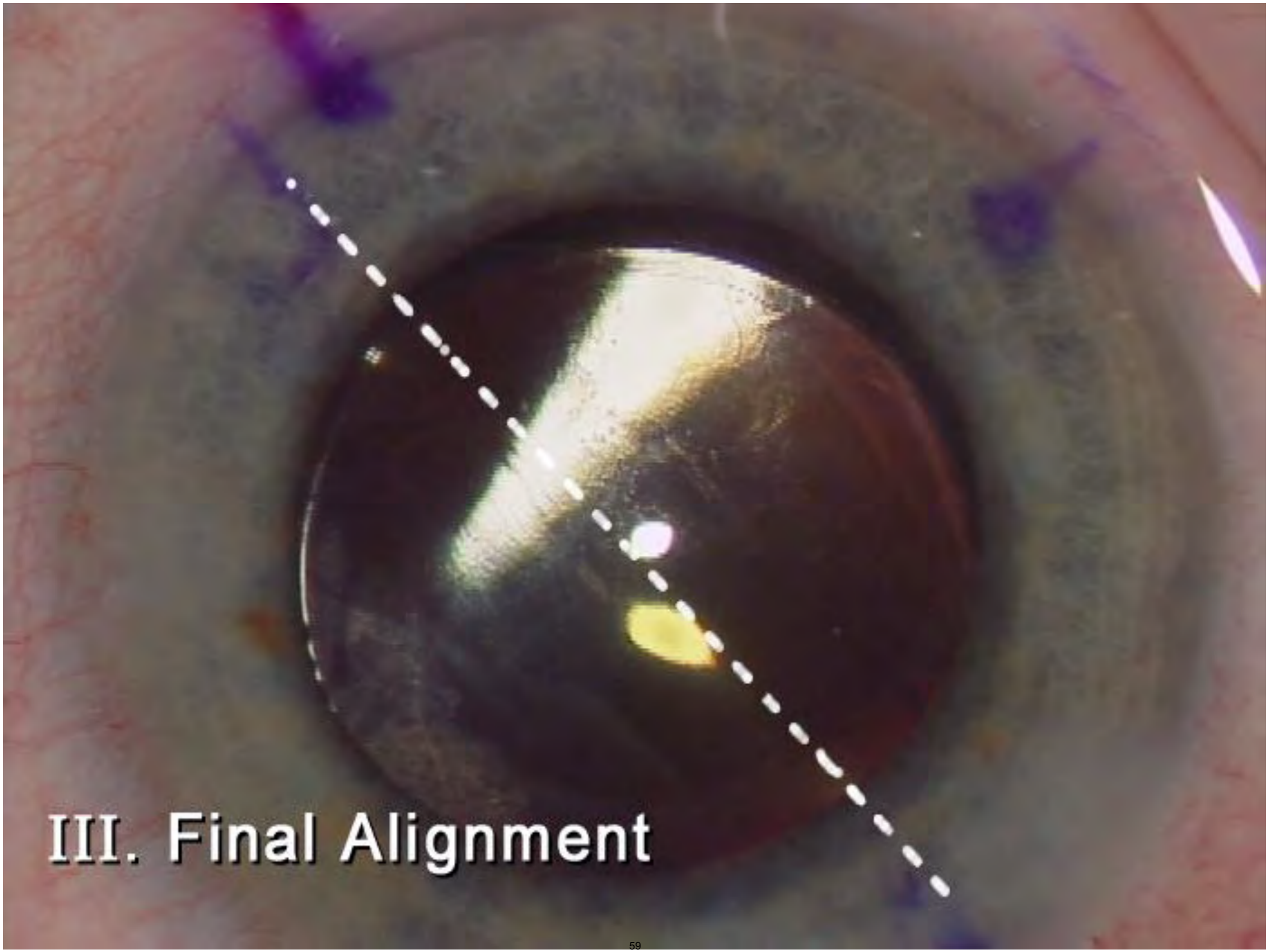
I. Gross Alignment

15°-20°

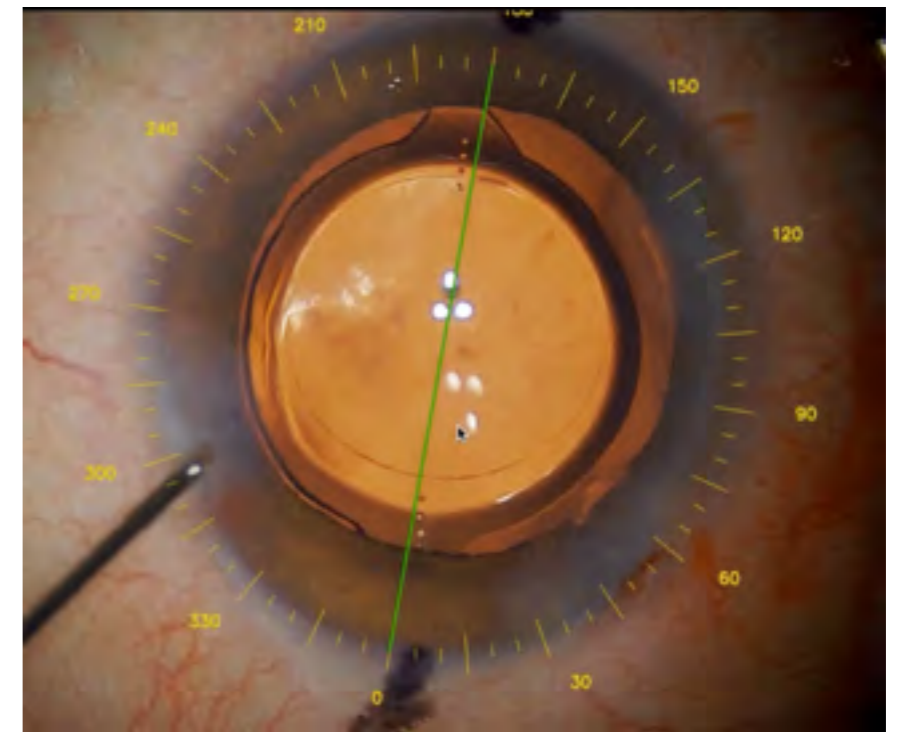
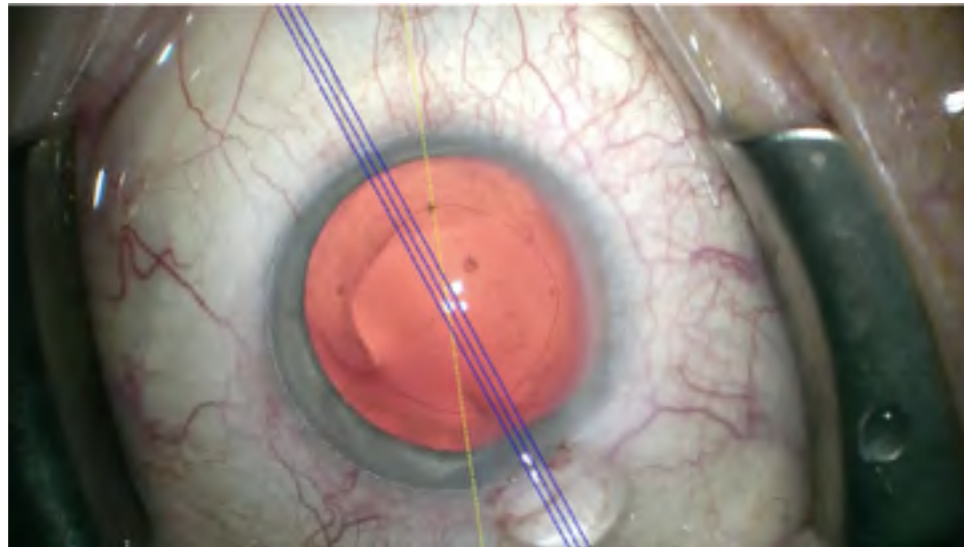




II. Stabilize IOL During OVD Removal



III. Final Alignment



INTRAOPERATIVE DEVICES

REVIEW



Intraocular lens alignment methods

Praneetha Thulasi^a, Sumitra S. Khandelwal^b, and J. Bradley Randleman^{a,c}

Curr Opin Ophthalmol 2015, 26:000–000

VERION

Limbus: $\phi 11.6\text{mm}$

Pupil: $\phi 3.0\text{mm}$

Astigmatism Axis: $-0.95\text{dpt} \times 59^\circ$

Steep Axis: 149°

Flat Axis: 59°

Nasal

Temporal

Lens Model: SN6AT3

Lens Power: 21.00 D



Alcon SN6AT6
 Procedure: LenSx
 SRG ACD(Opt): 5.670

Formula **Holladay II**

Incision **180°**

SIA **0.25D**

Post SIA Astigm **2.51 @86°**

IOL Placement Axis **86°**

IOL Ideal Toricity **3.86D @IOL**

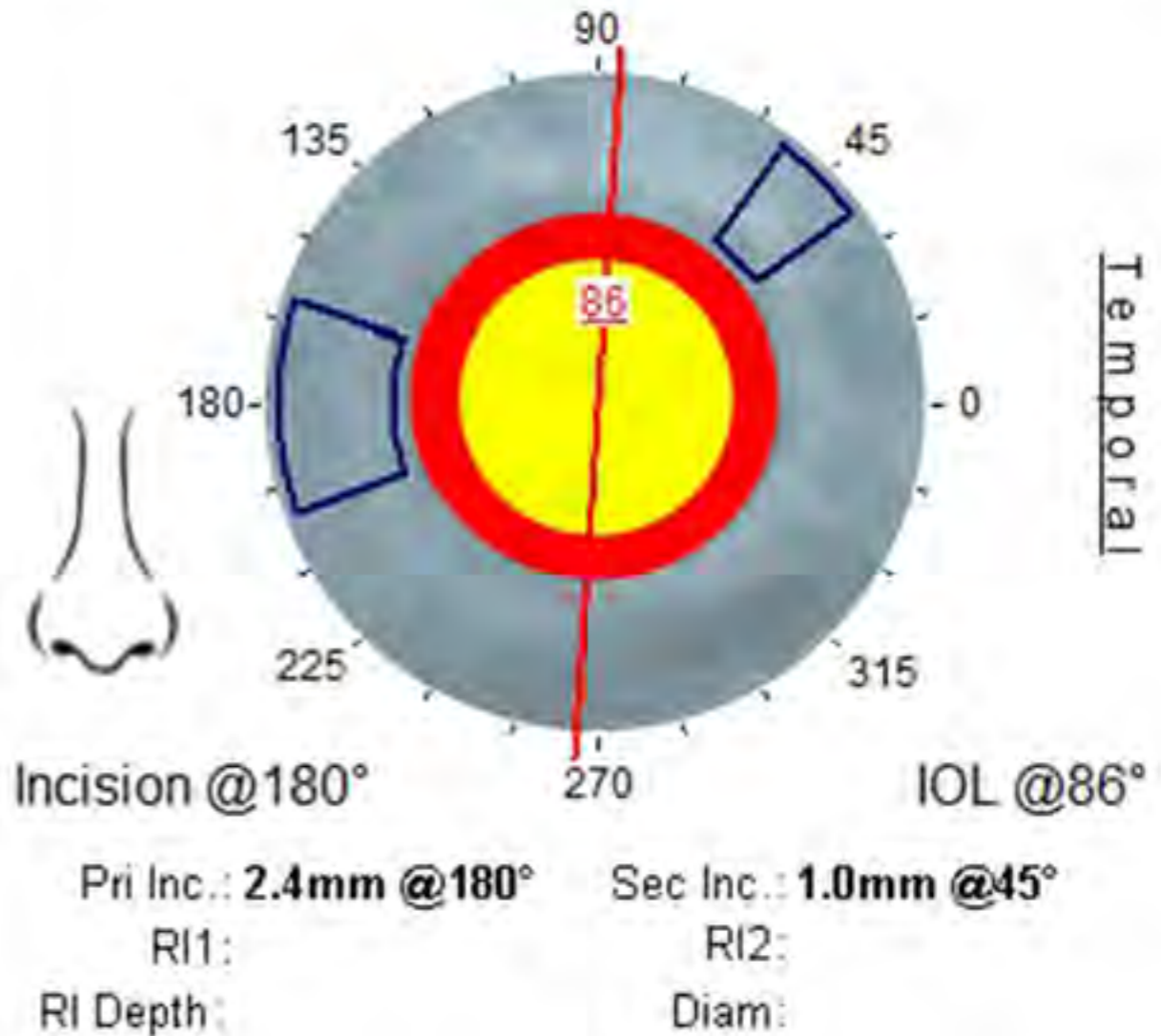
Res. Refraction **-2.15 +0.07D x86°**

IOL SEQ	SEQ Ref.
18.00	-1.44
18.50	-1.78
18.83	-2.00
19.00	-2.11
19.50	-2.45

Lens

Res. Refraction

SN6AT3 (1.50D @IOL)	-2.91 +1.59 D x 86°
SN6AT4 (2.25D @IOL)	-2.65 +1.08 D x 86°
SN6AT5 (3.00D @IOL)	-2.40 +0.58 D x 86°
SN6AT6 (3.75D @IOL)	-2.15 +0.07 D x 86°
SN6AT7 (4.50D @IOL)	-2.33 +0.44 D x 176°
SN6AT8 (5.25D @IOL)	-2.59 +0.95 D x 176°
SN6AT9 (6.00D @IOL)	-2.84 +1.45 D x 176°



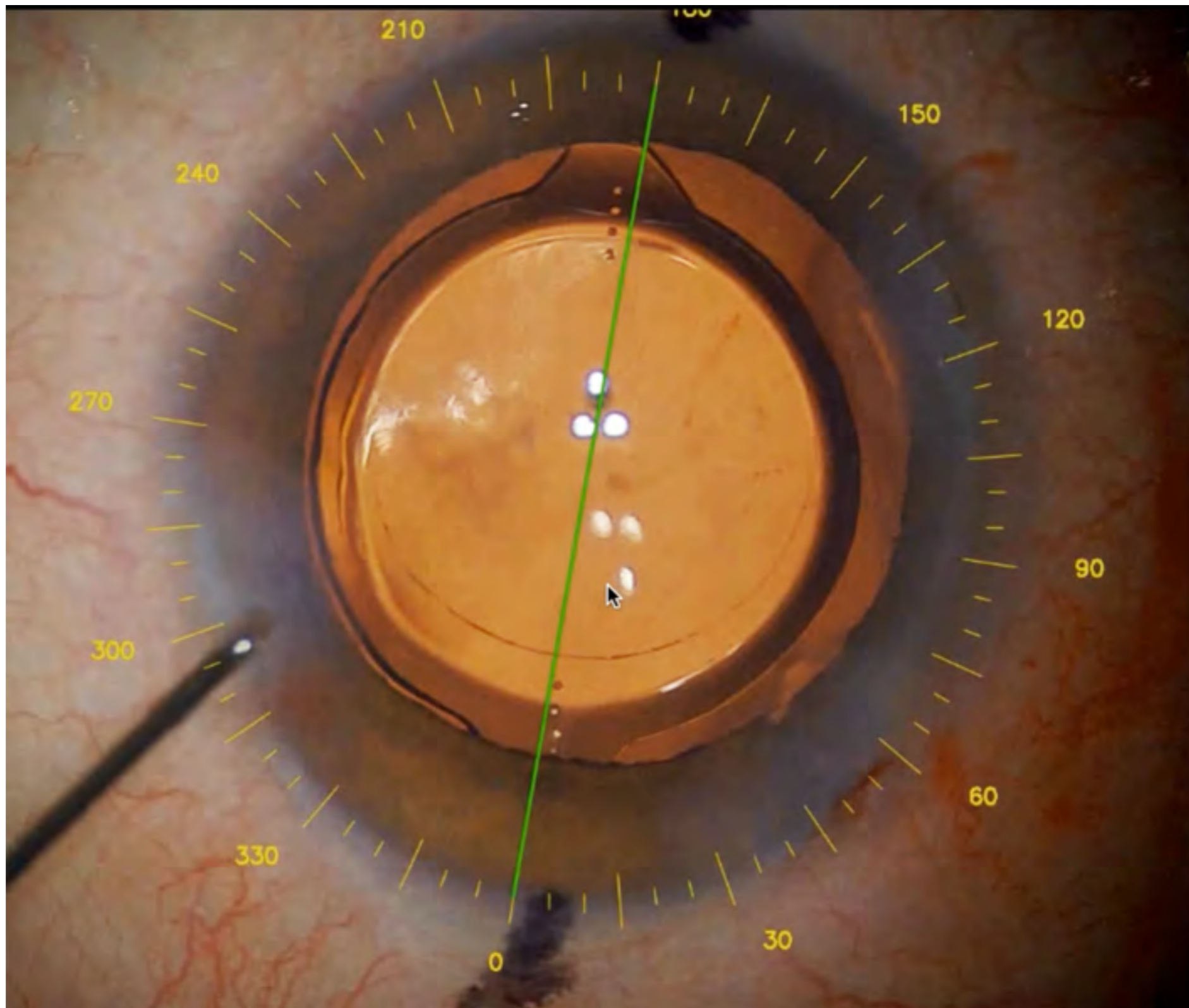
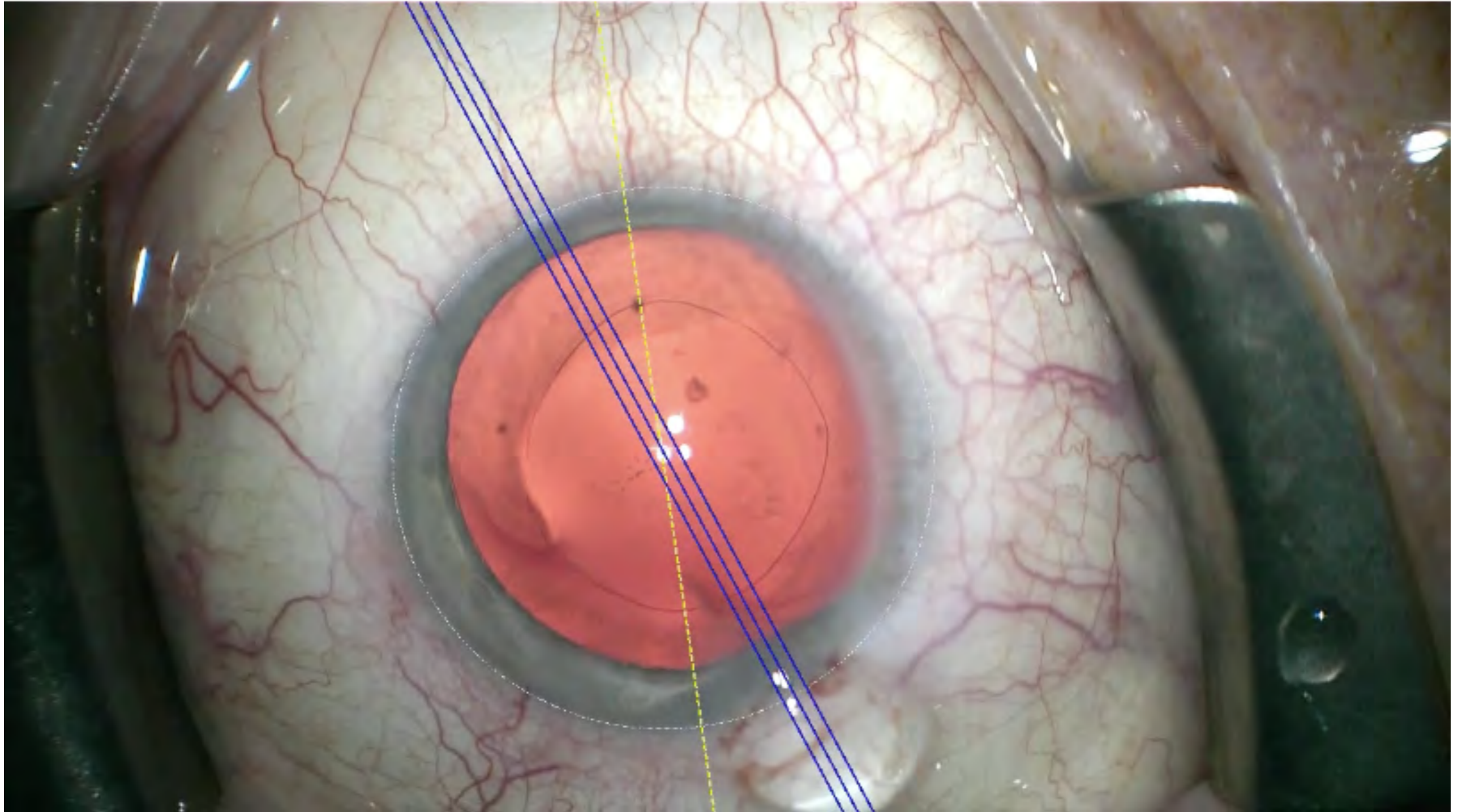


FIGURE 3. The True Vision (True Vision Systems) intraoperative digital overlay to assist with intraoperative toric IOL alignment.

ZEISS LUMERA



TORIC IOL WEBSITES

- acrysoftoriccalculator.com
- tecnistoriciol.com/tecnis-toric-iol-calculator
- trulign.toriccalculator.com
- astigmatismfix.com

TORIC IOL CALCULATORS

Correcting astigmatism with toric intraocular lenses: Effect of posterior corneal astigmatism

Douglas D. Koch, MD, Richard B. Jenkins, MD, Mitchell P. Weikert, MD, Elizabeth Yeu, MD, Li Wang, MD, PhD

J Cataract Refract Surg 2013; 39:1803–1809

Table 3. Baylor toric IOL nomogram (target range up to 0.40 D WTR). Values in the table are the vector sum of the anterior corneal and surgically induced astigmatism. Examples: (1) If the cornea has 3.70 D WTR and surgically induced astigmatism is 0.20 D WTR, use the value of 3.9 D to select IOL toricity. (2) If the cornea has 1.90 D ATR and surgically induced astigmatism is 0.20 D WTR, use the value of 1.70 D to select IOL toricity.

Effective IOL Cylinder Power at Corneal Plane (D)	WTR (D)	ATR (D)
0.00	≤1.69 (PCRI if >1.00)	<0.39
1.00	1.70–2.19	0.40*–0.79
1.50	2.20–2.69	0.80–1.29
2.00	2.70–3.19	1.30–1.79
2.50	3.20–3.79	1.80–2.29
3.00	3.80–4.39	2.30–2.79
3.50	4.40–4.99	2.80–3.29
4.00	5.00–	3.30–3.79

ATR = against the rule; IOL = intraocular lens; PCRI = peripheral corneal relaxing incision; WTR = with the rule

*Especially if spectacles have more ATR

Reduce toric IOL choice for WTR

Increase toric IOL choice for ATR

TORIC IOL CALCULATORS

- Manufacturer calculators
- Holladay
- Barrett

Alcon does not receive or retain any patient data. Please print a copy of the final output for your records. Contact your Alcon representative for available AcrySof® IQ Toric IOL models and dioptric ranges.

Print

Lens Recommendation

Surgeon & Patient Information	
Surgeon Name	
Patient Name	
Additional Patient Information <i>(I.D., Case, etc.)</i>	
Lens Details	
AcrySof® IQ Toric IOL	SN6AT5
IOL Spherical Equivalent (SE)	21.0 D
Axis of Placement	99°
Cylinder Power (IOL Plane)	3.00 D
Cylinder Power (Corneal Plane)	2.06 D
Calculation Details	
Pre-Op Corneal Astigmatism:	1.66 D X 102°
Surgically Induced Astigmatism:	0.50 D X 90°
Crossed-Cylinder Result (corneal plane):	2.13 D X 99°
Anticipated Residual Astigmatism:	0.07 D X 99°

OS (Left)

IOL: SN6AT5 21.00 SE, Cyl:3.000 @ 99°

Flat K:41.08D @ 12° Steep K:42.72D @ 102°
P-IOL:21.00 SIA:0.50D IL:190° [V:3.2.1]
02003df237040ab715df10b5debb024610/1/14 9:54:50

Patient 1

T4

BARRETT TORIC CALCULATOR

K Index 1.3375 K Index 1.332

+VE CYLINDER -VE CYLINDER

Patient Data Toric IOL Calculator Guide

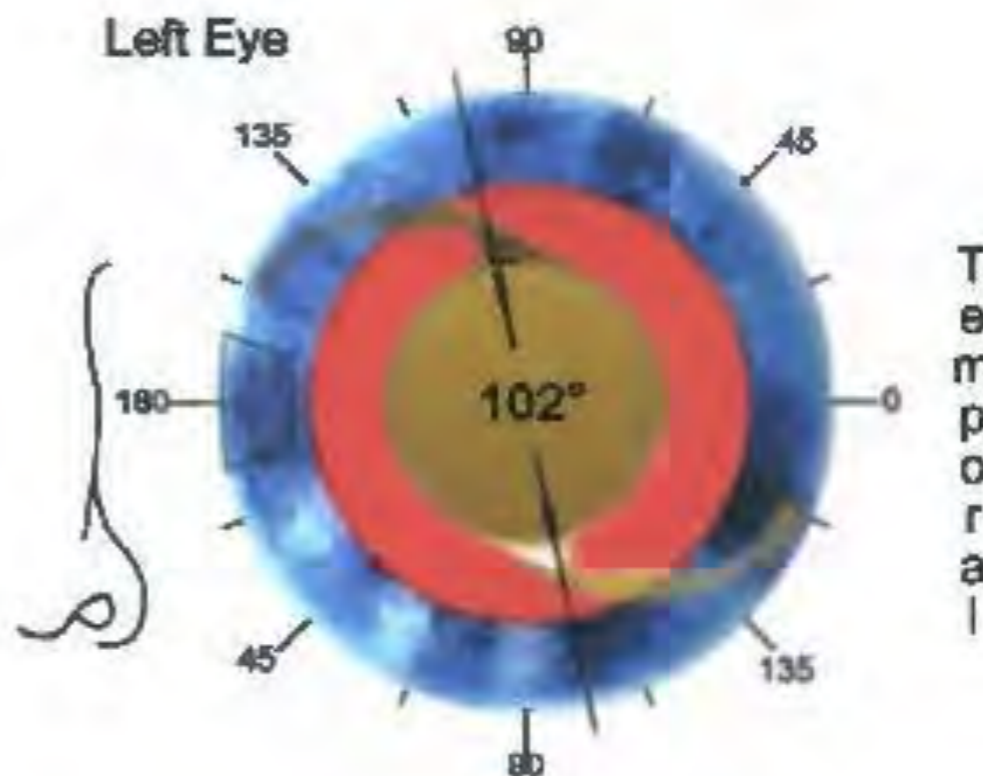
Flat K: 41.06 @ 12 Steep K: 42.72 @ 102

A Constant/LLF: 119.2 / 1.99 AL: 25.91 ACD: 3.58

Induced Astigmatism (SIA): .8 D @ 180 Degrees

IOL Power	Toric Power	Refraction - (S.E.Q.)
21.5 (Biconvex)	T4	-3.92 S.E.
21.0 (Biconvex)	T4	-3.54 S.E.
20.5 (Biconvex)	T4	-3.15 S.E.

Toric Power	IOL Cylinder	Residual Astigmatism
T3	1.5	0.62 Cyl Axis 102
T4	2.25	0.12 Cyl Axis 102
T5	3	0.39 Cyl Axis 12



Recommended IOL: 21 D T4 Axis 102
Cylinder Power: IOL Plane 2.25 D - Corneal Plane 1.52 D
Target Refraction:
-3.59 sph. / 0.12 cyl Axis 102 Degrees

Patient 1

T5

Alcon SN6ATx
 Procedure: Std Phaco
 SRG Entrd ACD(Opt): 5.67

Formula: Holladay II

Incision : 180°

SIA: 0.50D

IOL Placement Axis : 86°

IOL Ideal Toricity : 2.99D @IOL

Res. Refraction : +0.06 +0.02 D x 86°

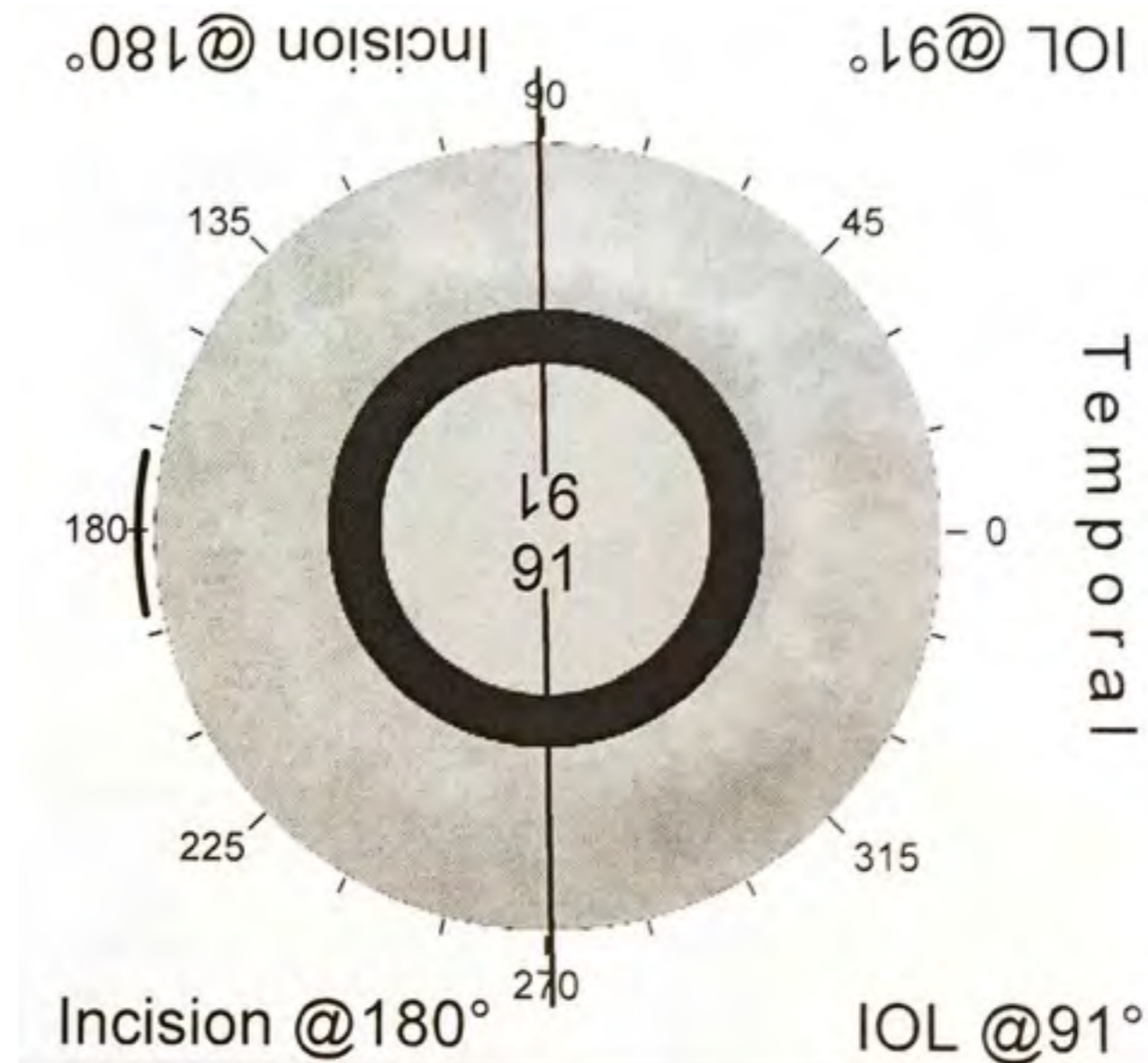
IOL	Ref.
12.50	0.38
13.00	0.07
13.11	0.00
13.50	-0.25
14.00	-0.57

Lens

- SN6AT2 (1.00D @IOL)
- SN6AT3 (1.50D @IOL)
- SN6AT4 (2.25D @IOL)
- SN6AT5 (3.00D @IOL)**
- SN6AT6 (3.75D @IOL)
- SN6AT7 (4.50D @IOL)
- SN6AT8 (5.25D @IOL)
- SN6AT9 (6.00D @IOL)

Res. Refraction

- 0.57 +1.28 D x 86°
- 0.41 +0.97 D x 86°
- 0.18 +0.50 D x 86°
- +0.06 +0.02 D x 86°**
- 0.16 +0.45 D x 176°
- 0.39 +0.93 D x 176°
- 0.63 +1.40 D x 176°
- 0.87 +1.87 D x 176°







Alcon does not receive or retain any patient data. Please print a copy of the final output for your records. Contact your Alcon representative for available AcrySof® IQ Toric IOL models and dioptric ranges.

Print

Lens Recommendation

Surgeon & Patient Information	
Surgeon Name	
Patient Name	
Additional Patient Information <i>(I.D., Case, etc.)</i>	
Lens Details	
AcrySof® IQ Toric IOL	SN6AT8
IOL Spherical Equivalent (SE)	32.0 D
Axis of Placement	91°
Cylinder Power (IOL Plane)	5.25 D
Cylinder Power (Corneal Plane)	3.60 D
Calculation Details	
Pre-Op Corneal Astigmatism:	3.45 D X 91°
Surgically Induced Astigmatism:	0.50 D X 90°
Crossed-Cylinder Result (corneal plane):	3.95 D X 91°
Anticipated Residual Astigmatism:	0.35 D X 91°

OS (Left)



IOL: SN6AT8 32.00 SE, Cyl:5.25D @ 91°

Flat K:42.720 @ 1° Steep K:40.170 @ 91°
P-IOL:32.00 SIA:0.50D IL:105° [V2.2.1]
8dco0a0f4c7b2f1a40723b00c36544ac9/20/14 10:00:00

Patient 2

T6

BARRETT TORIC CALCULATOR

K Index 1.3375 K Index 1.332

+VE CYLINDER -VE CYLINDER

Patient Data Toric IOL Calculator Guide

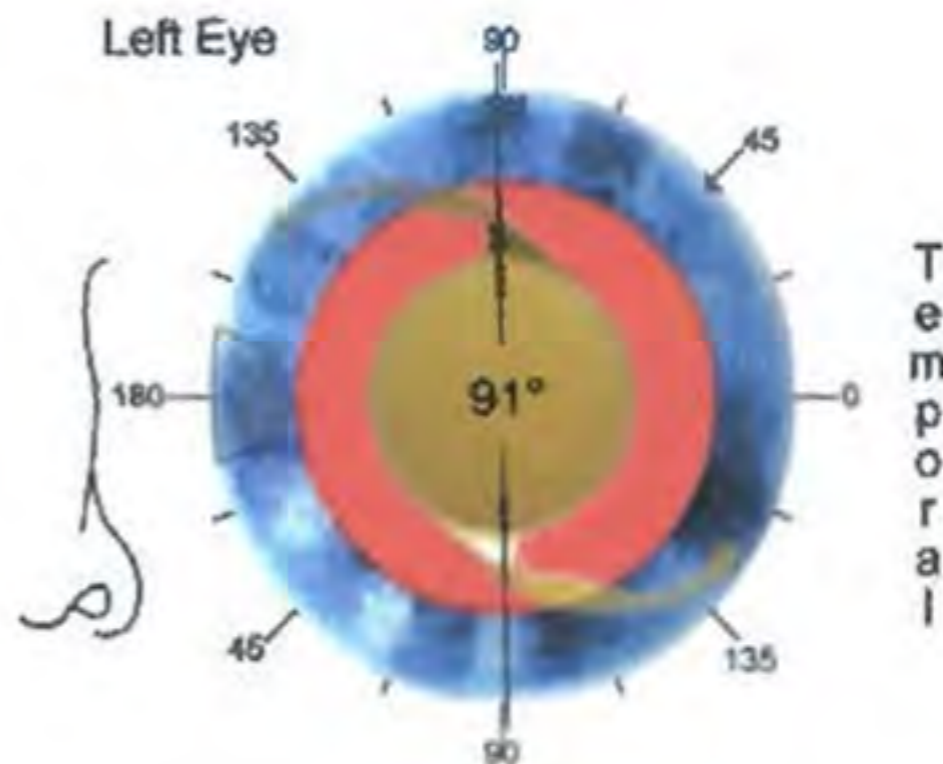
Flat K: 42.72 @ 1 Steep K: 46.17 @ 91

A Constant/LF: 119.2 / 1.99 AL: 20.82 ACD: 3.28

Induced Astigmatism (BIA): .5 D @ 150 Degrees

IOL Power	Toric Power	Refraction - (S.E.Q.)
32.5 (Biconvex)	T6	-1.04 S.E.
32.0 (Biconvex)	T6	-0.67 S.E.
31.5 (Biconvex)	T6	-0.29 S.E.

Toric Power	IOL Cylinder	Residual Astigmatism
T5	3	0.90 Cyl Axis 91
T6	3.75	0.39 Cyl Axis 91
T7	4.5	0.12 Cyl Axis 1



Recommended IOL: 32 D T6 Axis 91
Cylinder Power: IOL Plane 3.75 D ~ Corneal Plane 2.64 D
Target Refraction:
-0.66 sph. / 0.39 cyl Axis 91 Degrees

Patient 2

T9

Alcon SN6ATx
 Procedure: Std Phaco
 SRG Entrd ACD(Opt): 5.67

Formula: Holladay II

Incision: 180°

SIA: 0.50D

IOL Placement Axis: 91°

IOL Ideal Toricity: 5.67D @IOL

Res. Refraction: -0.45 +0.23 D x 1°

IOL	Ref.
30.00	1.02
31.00	0.35
31.76	-0.17
32.00	-0.34
33.00	-1.04

Lens

- SN6AT2 (1.00D @IOL)
- SN6AT3 (1.50D @IOL)
- SN6AT4 (2.25D @IOL)
- SN6AT5 (3.00D @IOL)
- SN6AT6 (3.75D @IOL)
- SN6AT7 (4.50D @IOL)
- SN6AT8 (5.25D @IOL)
- SN6AT9 (6.00D @IOL)**

Res. Refraction

- 1.96 +3.25 D x 91°
- 1.79 +2.91 D x 91°
- 1.53 +2.39 D x 91°
- 1.27 +1.86 D x 91°
- 1.01 +1.34 D x 91°
- 0.75 +0.82 D x 91°
- 0.49 +0.30 D x 91°
- 0.45 +0.23 D x 1°**

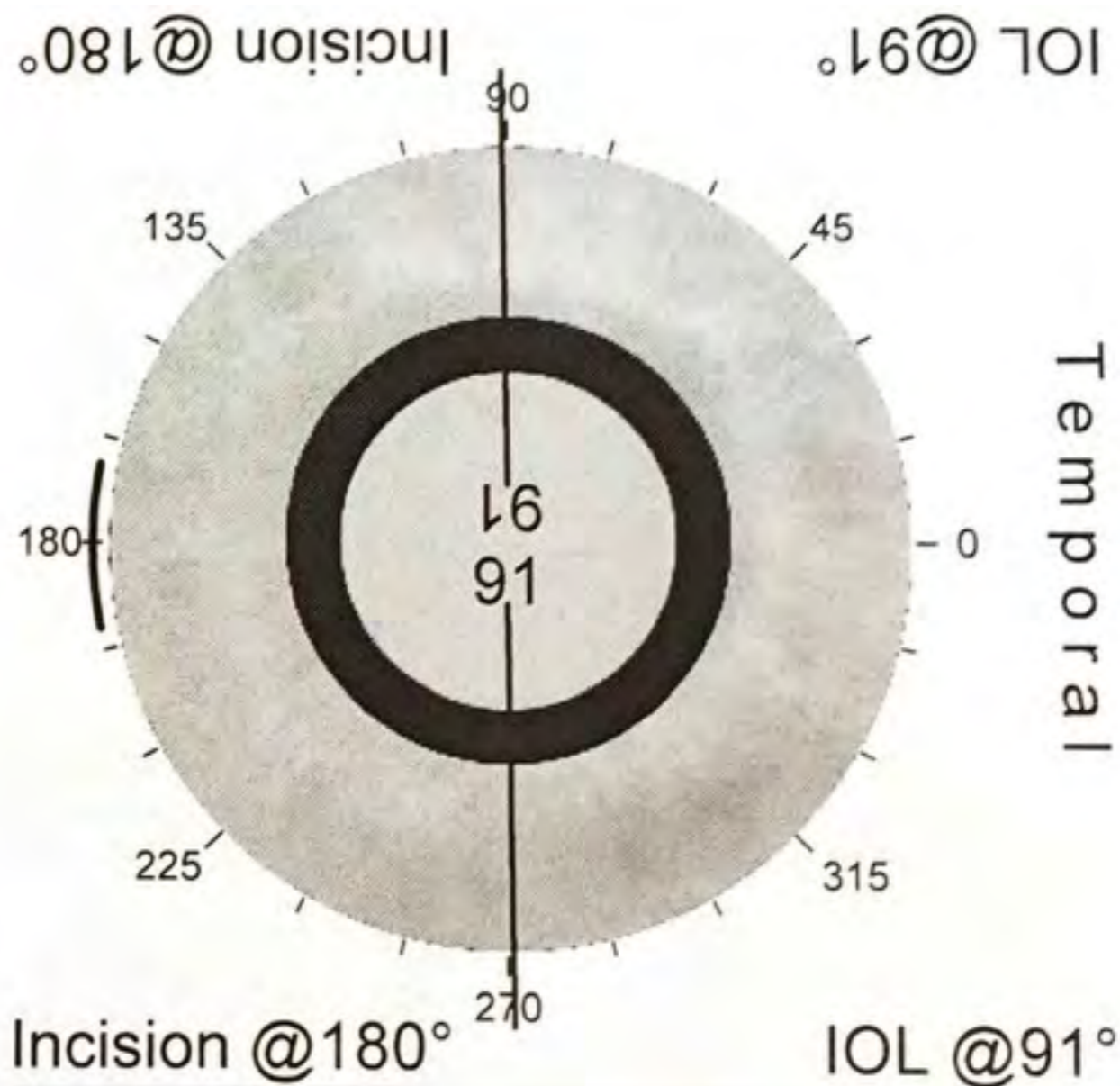


Figure 2b: Calculator Recommendation Deviation from Ideal

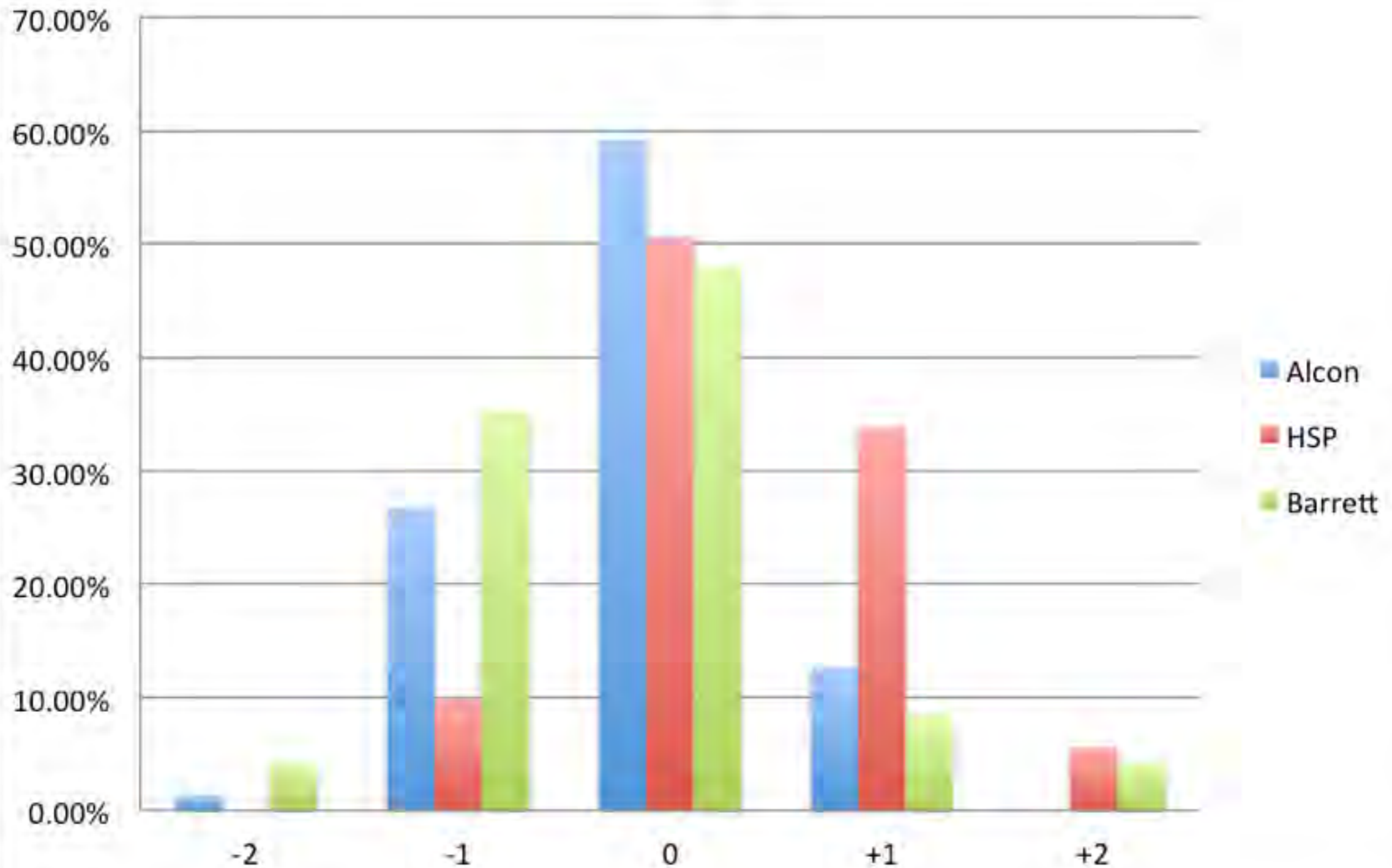


Figure 5: With-the-Rule Calculator Deviation from Ideal

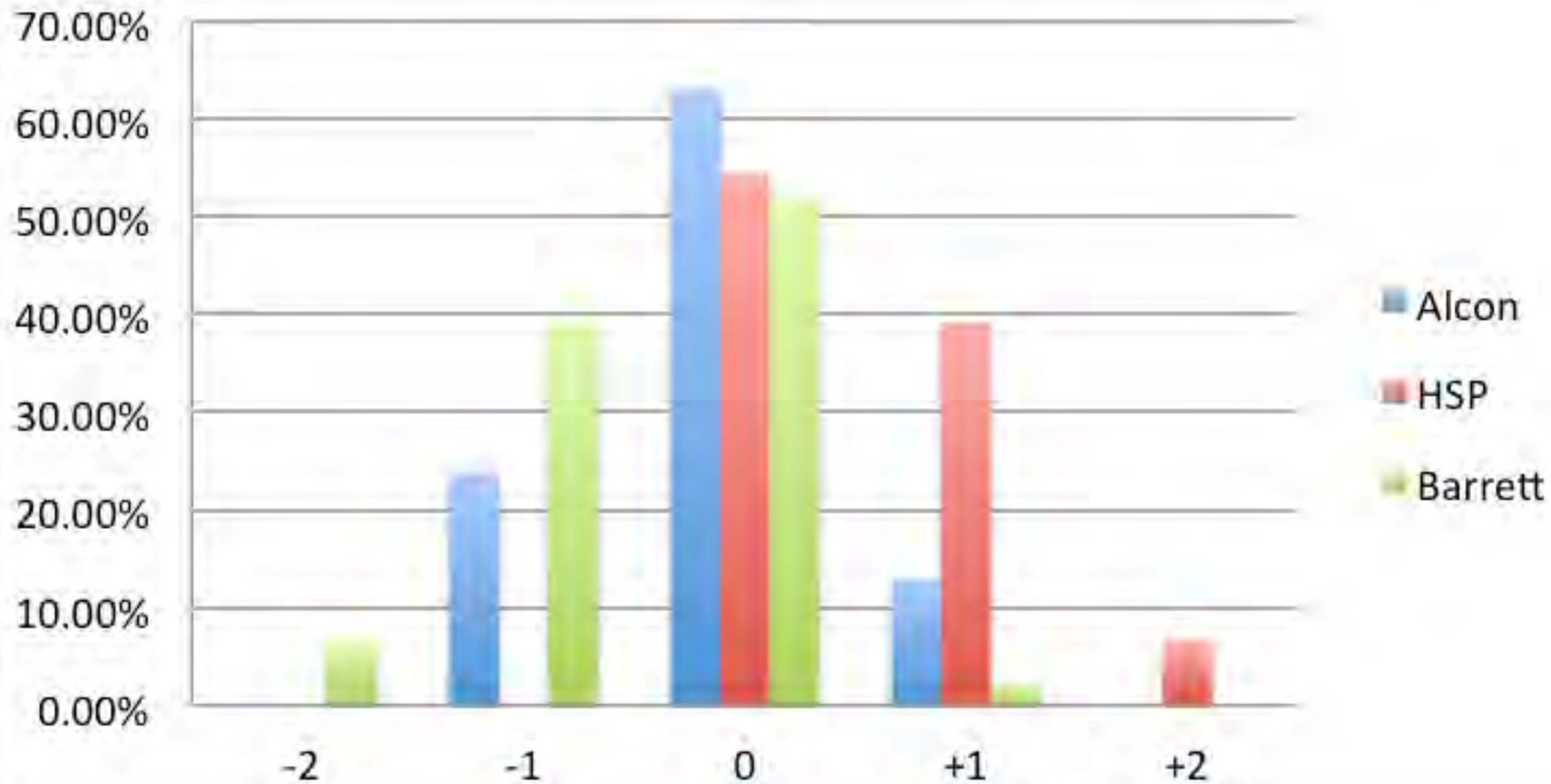


Figure 6: Against-the-Rule Calculator Deviation from Ideal

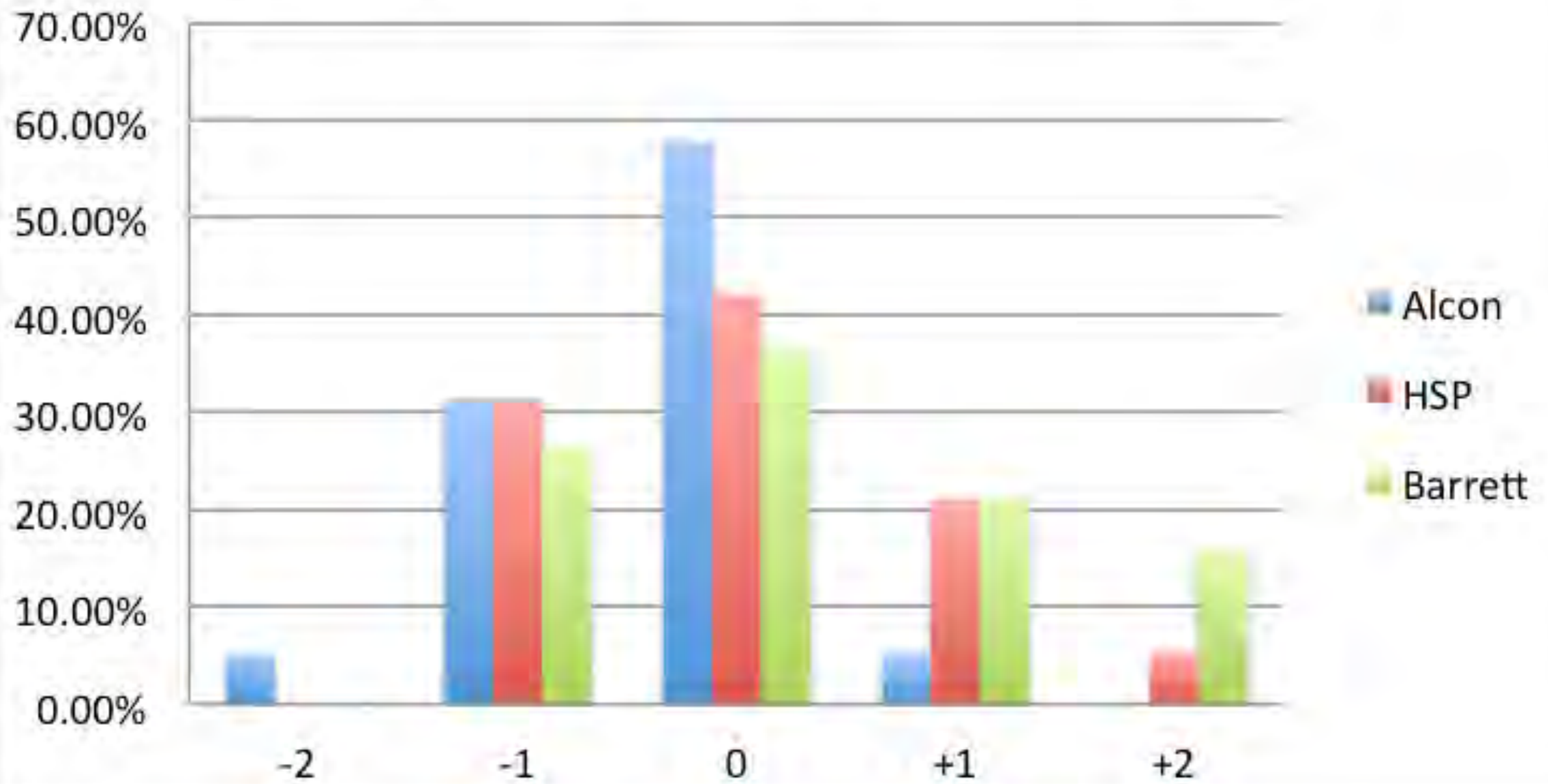


Figure 7: Alcon Deviation from Ideal

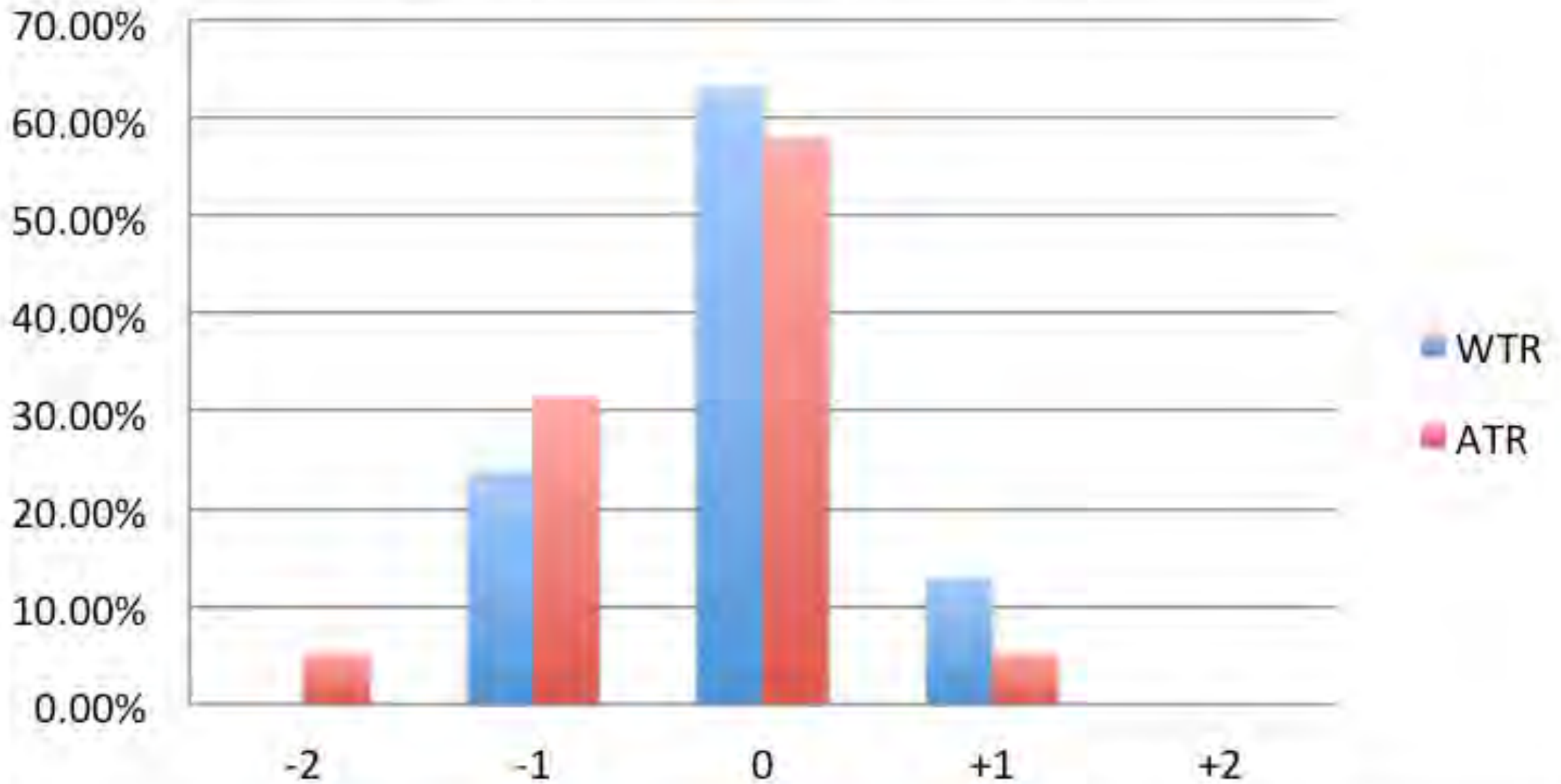


Figure 8: HSP Deviation from Ideal

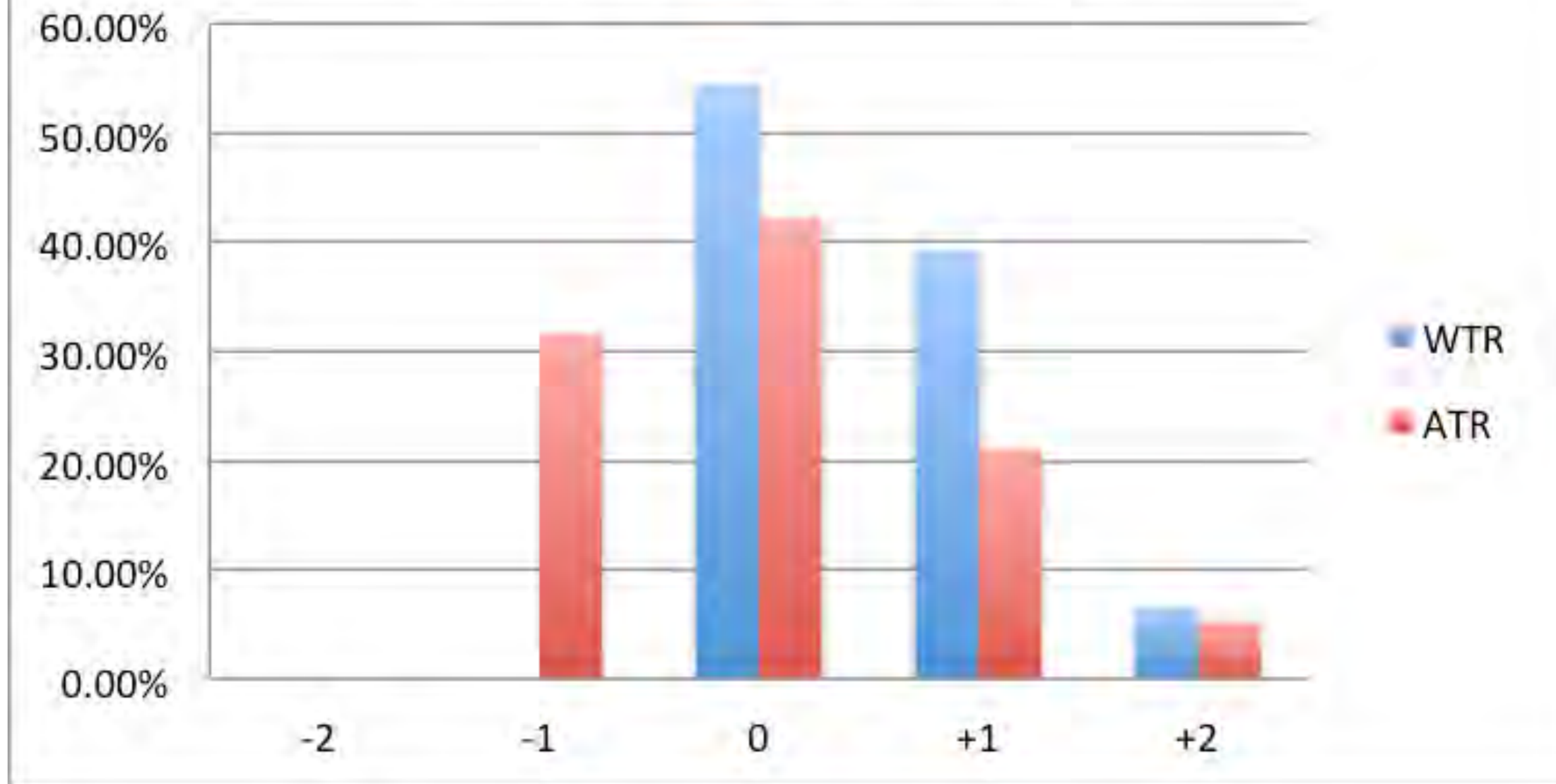
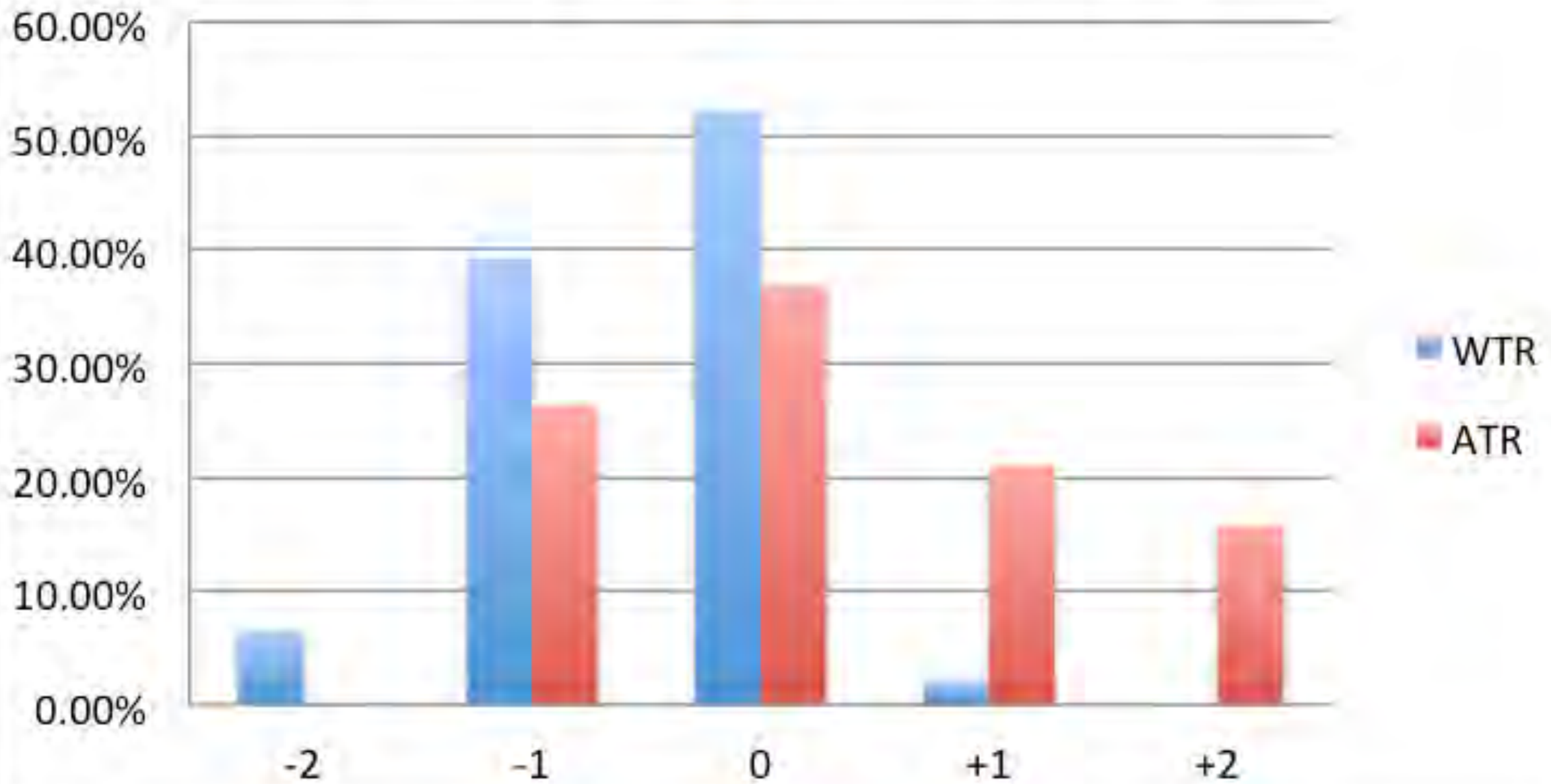


Figure 9: Barrett Deviation from Ideal

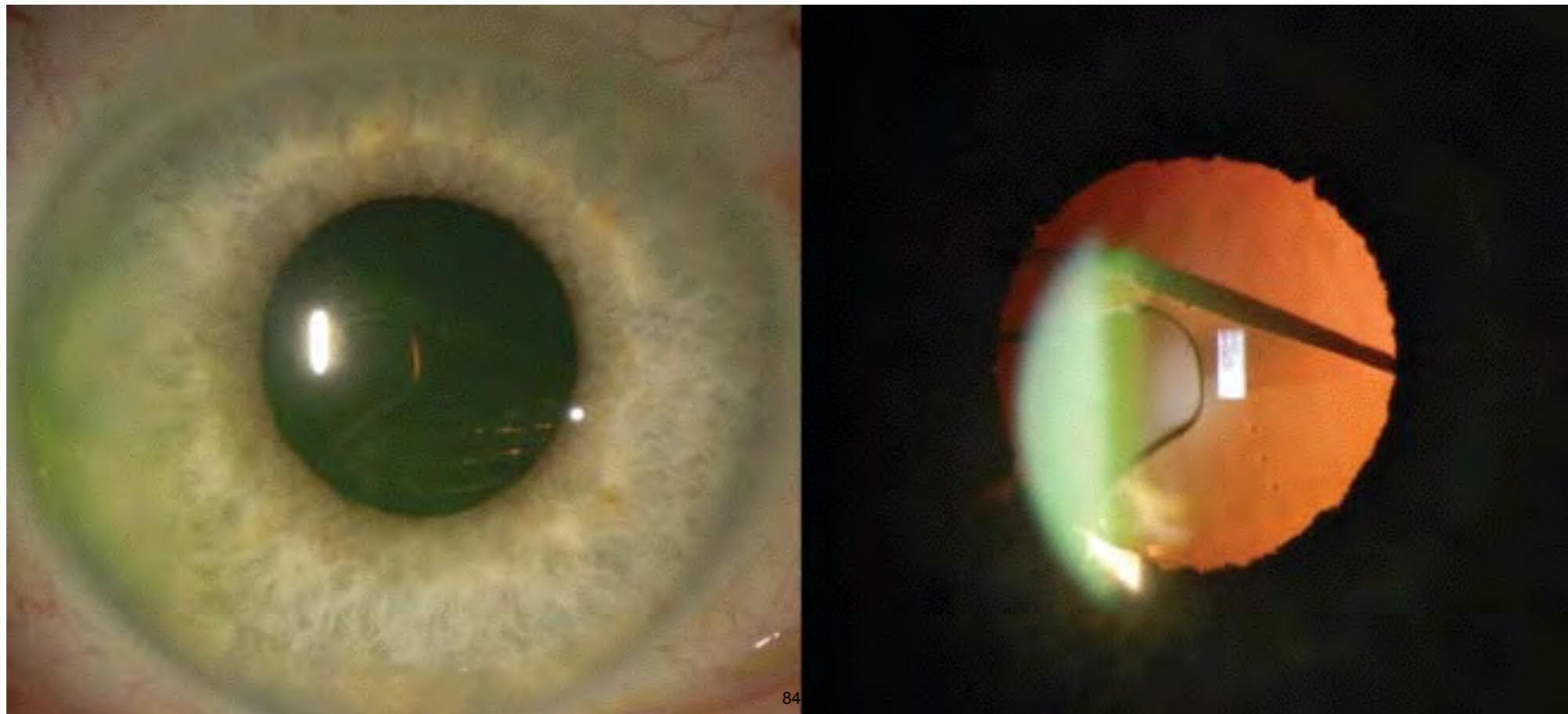


TORIC IOL FIXES

Scleral Fixation of a One-Piece Toric Intraocular Lens

Matthew E. Emanuel, MD; J. Bradley Randleman, MD; Samuel Masket, MD

[J Refract Surg 2013;29:140-142.]

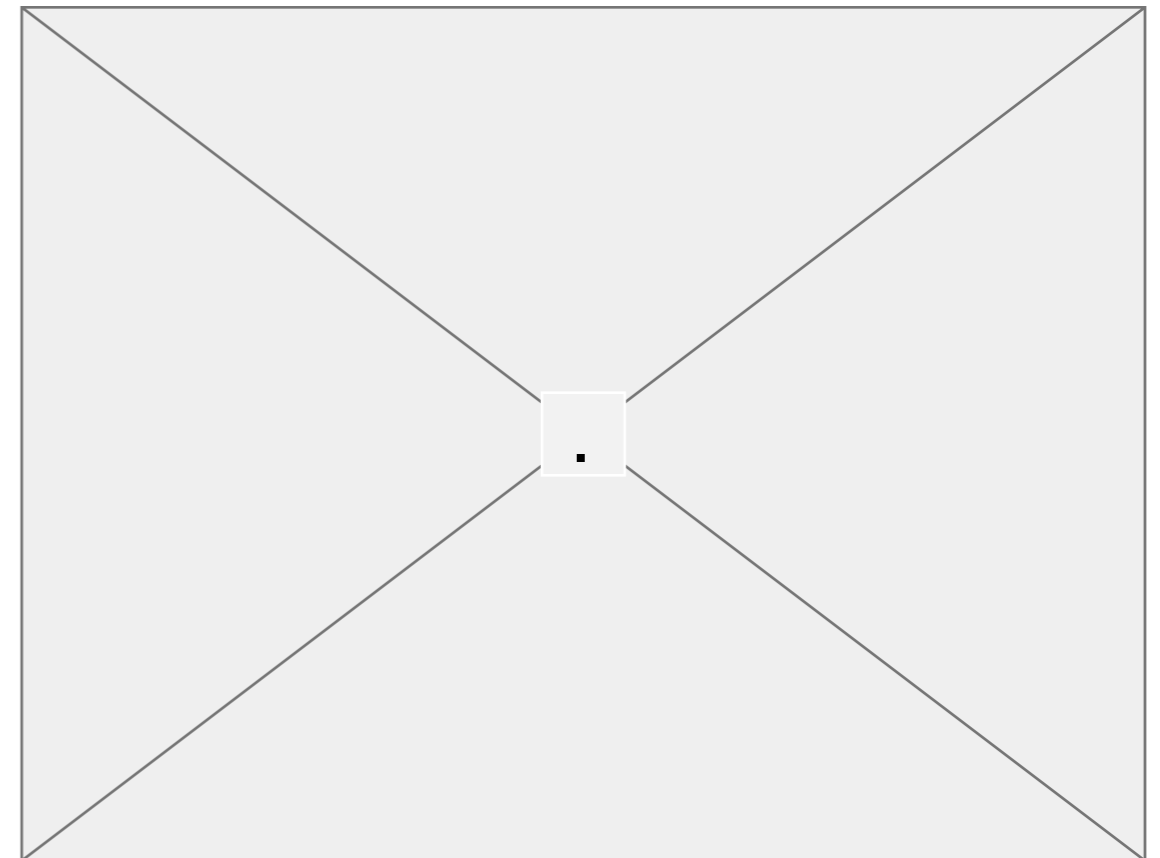
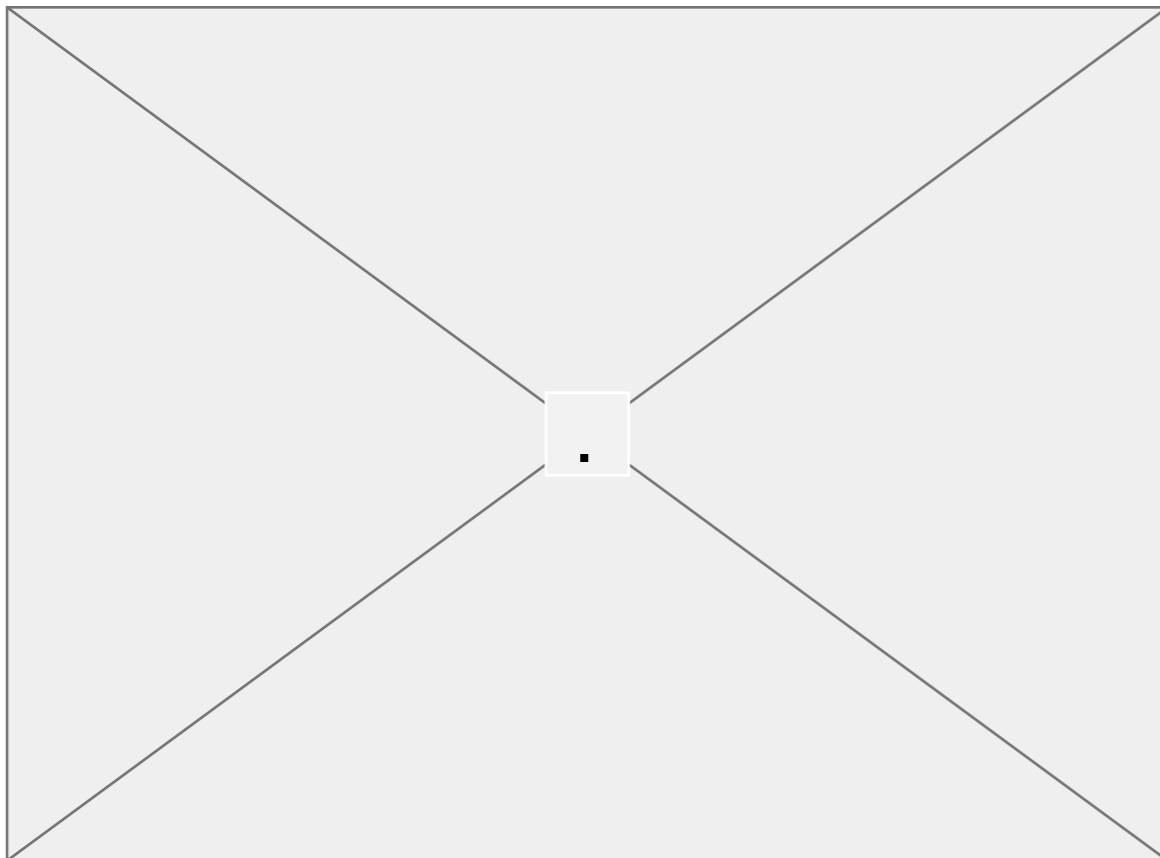


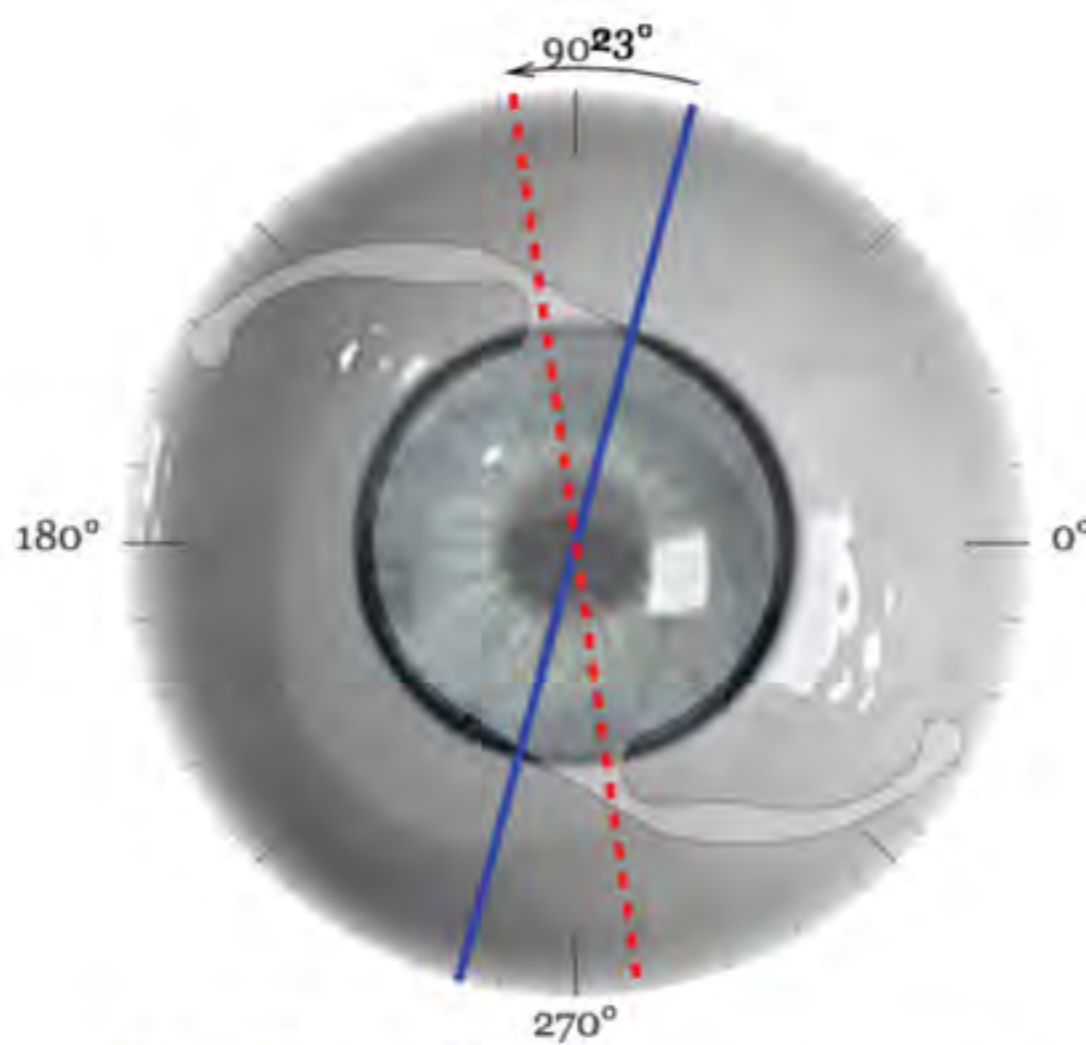
Toric intraocular lens rotation to optimize refractive outcome despite appropriate intraoperative positioning



James C. Lockwood, BA, J. Bradley Randleman, MD

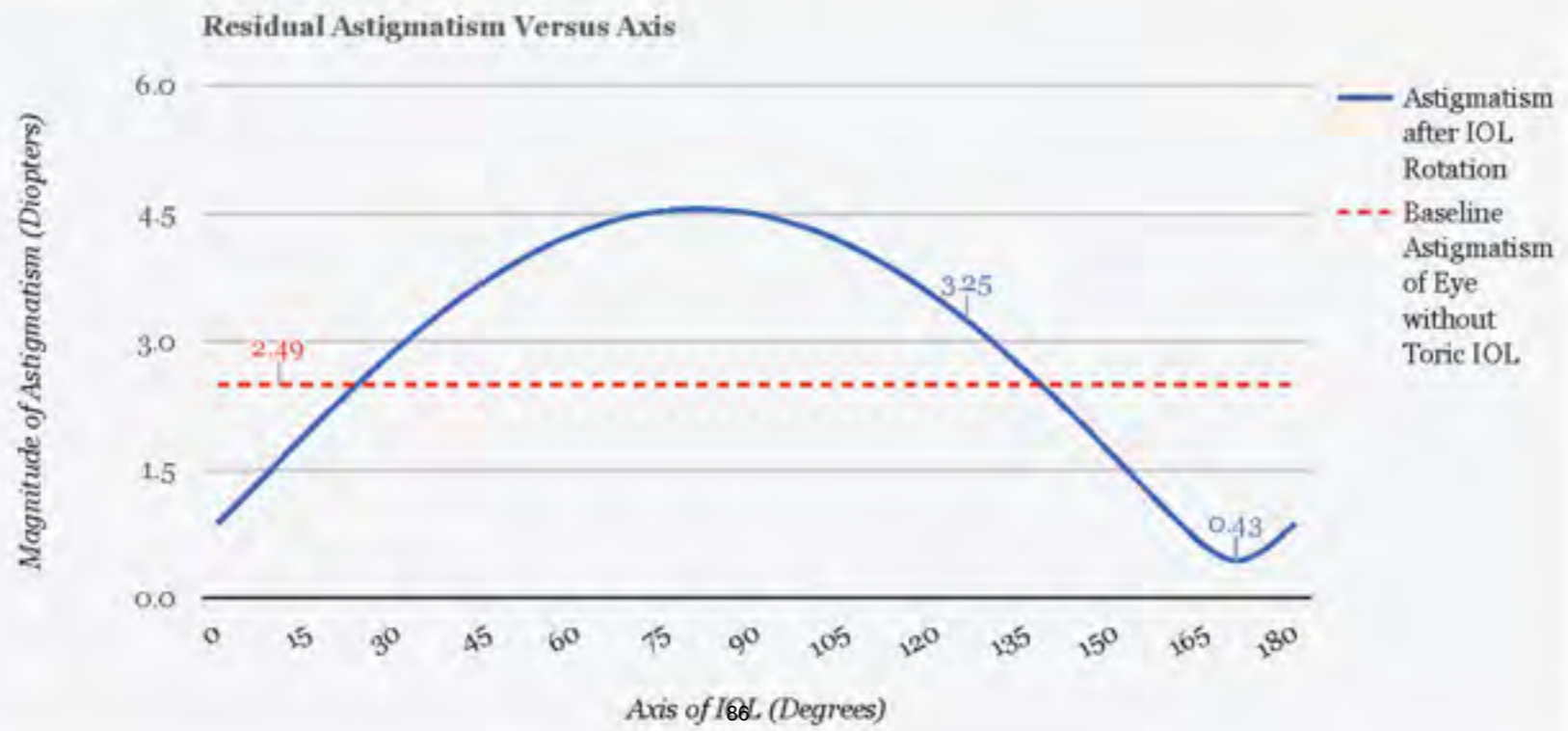
J Cataract Refract Surg 2015; 41:878–883





Rotating the Toric IOL
157° Clockwise
should minimize the
astigmatism.

Current Toric Position: 75° —————
Ideal Toric Position: 98° - - - - -

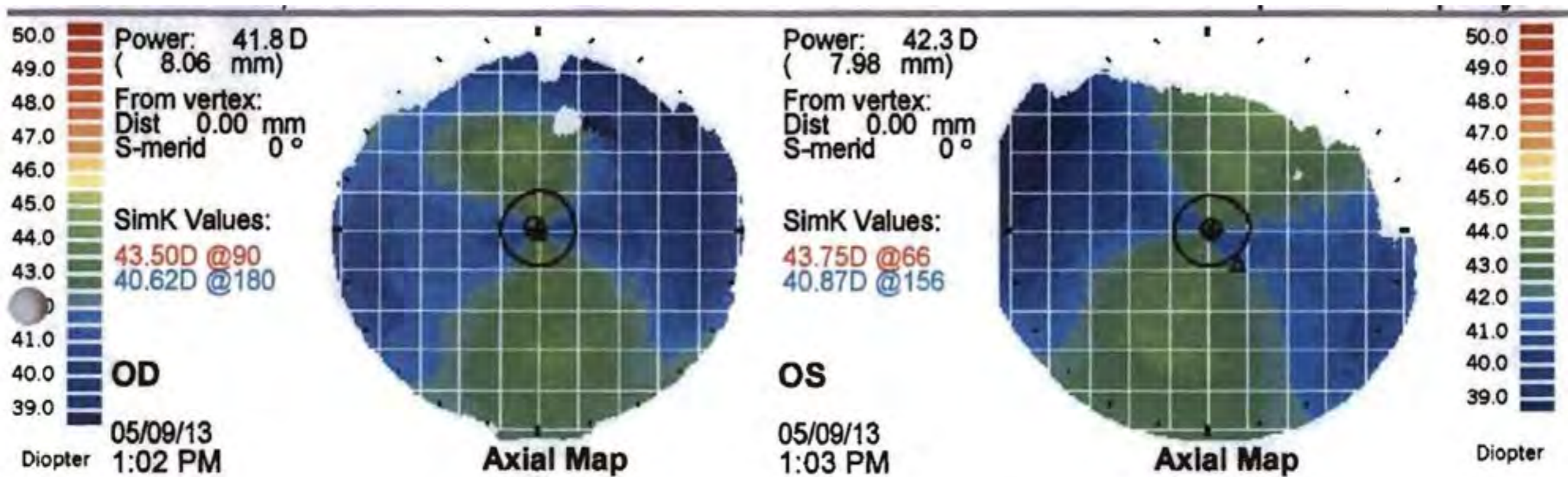


CASE 4

72 y male	OD	OS
CDVA	20/20	20/25
MRx	-0.25 +2.25 x 150	plano
K's	47.0/51.0 @ 070	47.5/50.5 @ 095
Exam	Toric PCIOL @ 075	Toric PCIOL

SN6AT7 OD

CASE 4



CCT 540 OU

Berdahl & Hardten Toric IOL Calculator

Instructions:

1. Enter manifest refraction in **plus power**
2. Enter the magnitude and axis of the patient's current Toric IOL (or choose from the list on the right)
3. Hit Calculate

Patient Eye

Left Eye Right Eye

Current Refraction

Sphere	Cylinder (Plus Power)	Axis (Degrees)
0.25	2.25	149

Toric Lens

Magnitude of Astigmatism	Axis (Degrees)
3.08	075

I Agree to the [Terms and Conditions](#)



For best results, IE9, Chrome, Firefox, or Safari are recommended.

Calculate

Model	Cylinder Power at Corneal Plane
Alcon	
<input type="radio"/> SN6AT3	1.03
<input type="radio"/> SN6AT4	1.55
<input type="radio"/> SN6AT5	2.06
<input type="radio"/> SN6AT6	2.57
<input checked="" type="radio"/> SN6AT7	3.08
<input type="radio"/> SN6AT8	3.60
<input type="radio"/> SN6AT9	4.11
Staar	
<input type="radio"/> Staar 2.0	1.30
<input type="radio"/> Staar 3.5	2.30
Tecnis Toric	
<input type="radio"/> ZCT150	1.03
<input type="radio"/> ZCT225	1.55
<input type="radio"/> ZCT300	2.06
<input checked="" type="radio"/> ZCT400	2.74
B & L Trulign	
<input type="radio"/> BL1UT125	0.83
<input type="radio"/> BL1UT200	1.33
<input type="radio"/> BL1UT275	1.83

Patient Eye: Right Eye

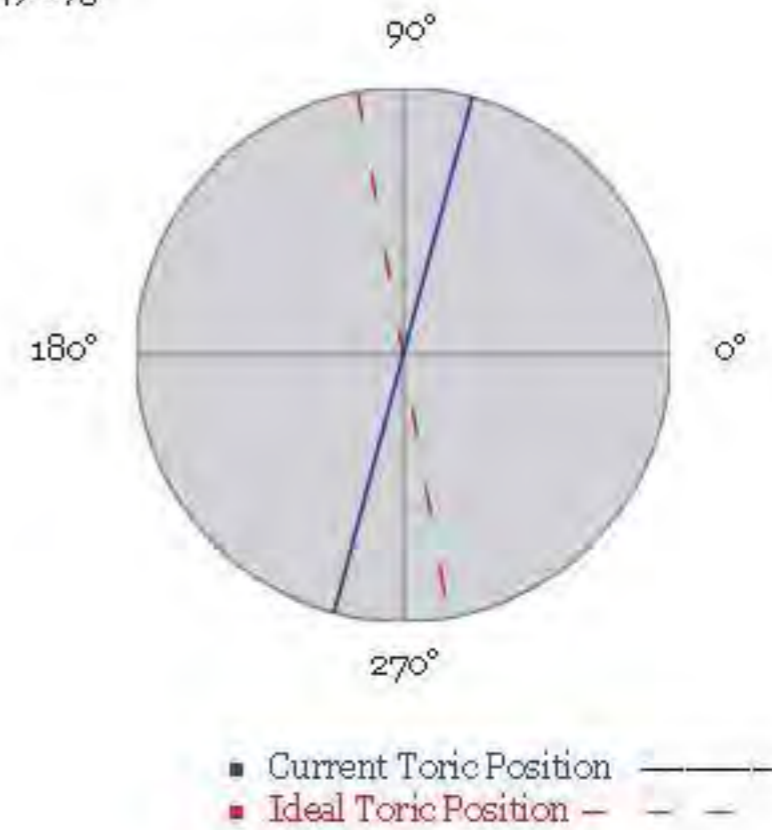
Entered Data

	Sphere	Cylinder (plus power)	Axis (Deg)
Current Refraction	0.25	2.25	149
Toric Lens		3.08	075

Calculated Results

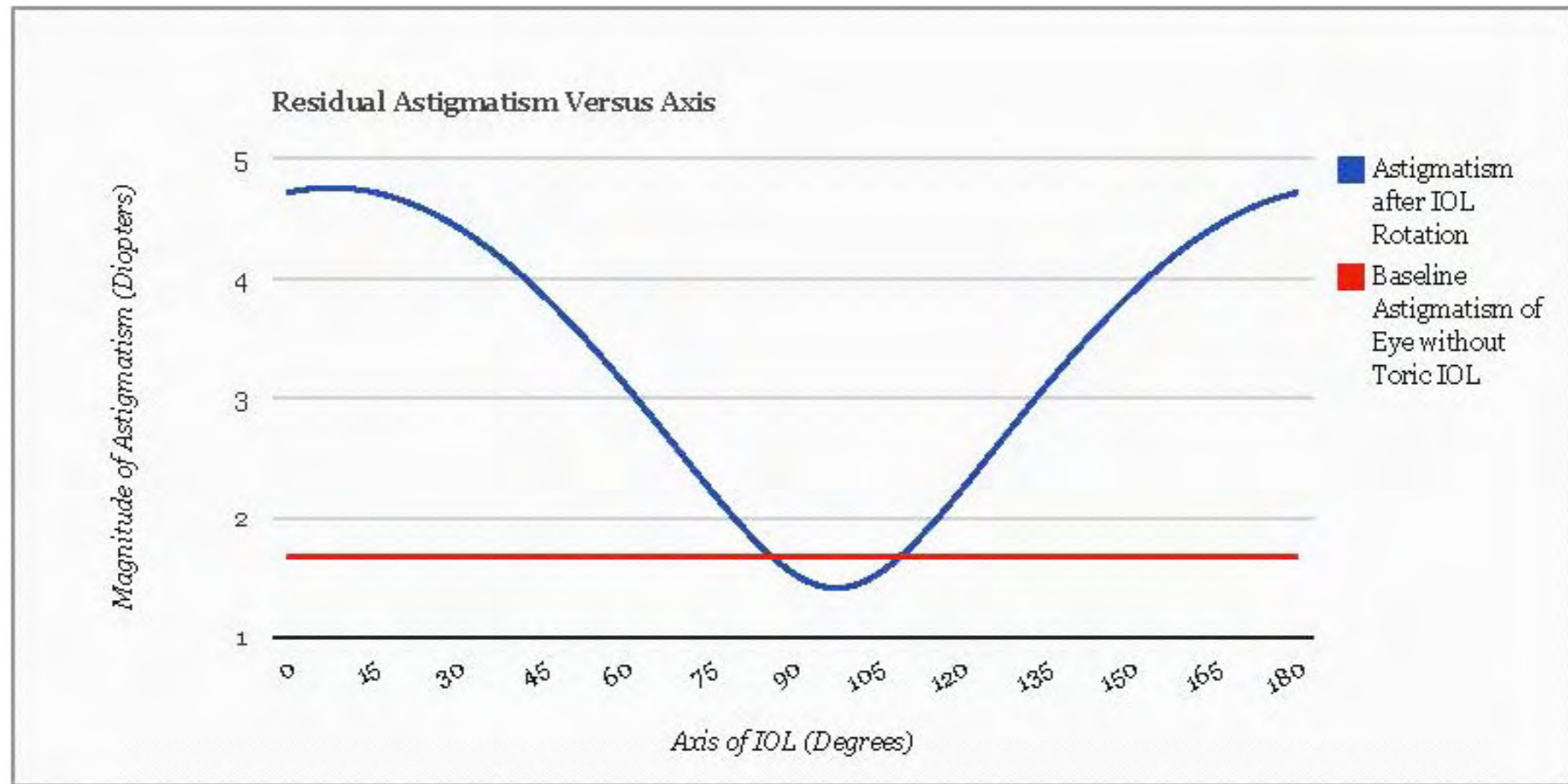
	Sphere	Cylinder (plus power)	Axis (Deg)
Ideal Position of the Toric		3.08	100
Expected Residual Refraction	0.66	1.42	13

149 075



**Rotating the Toric IOL 155°
Clockwise should minimize
the astigmatism.**

OPTIONS?



LASIK OD

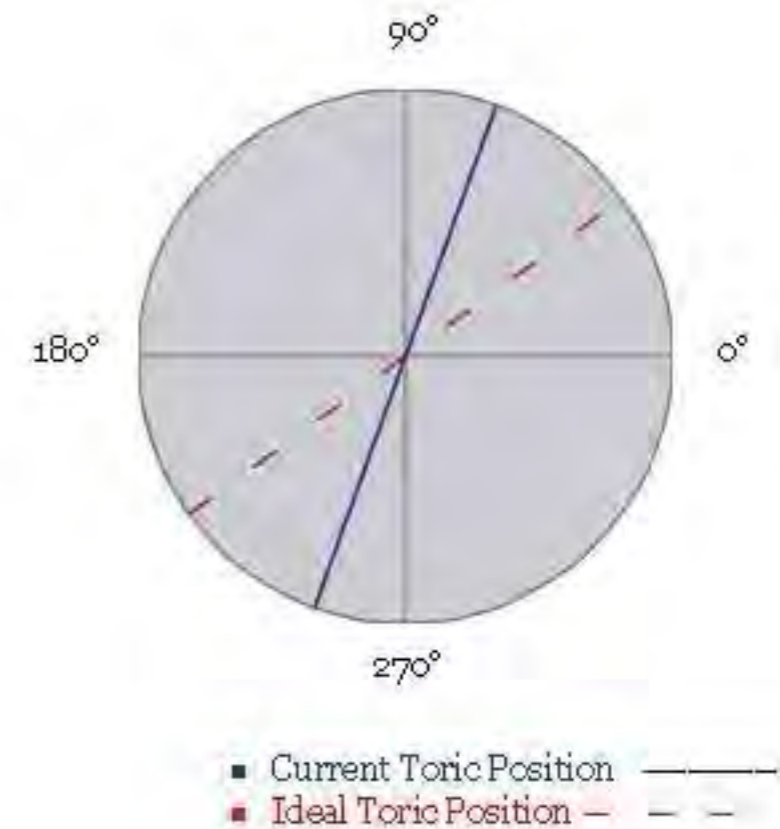
CASE 5

Entered Data

	Sphere	Cylinder (plus power)	Axis (Deg)
Current Refraction	-1.25	1.50	179.8
Toric Lens		1.55	070

Calculated Results

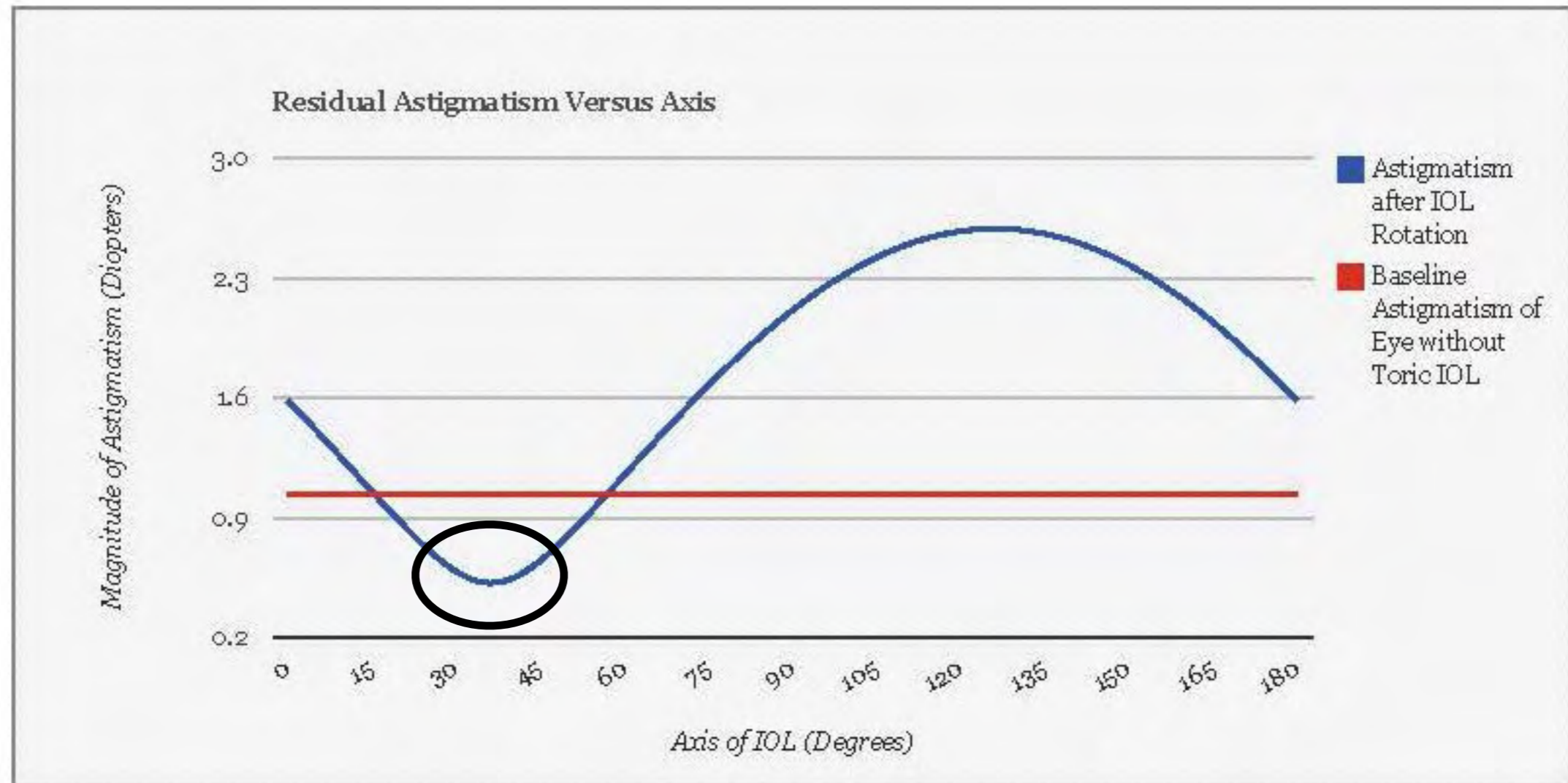
	Sphere	Cylinder (plus power)	Axis (Deg)
Ideal Position of the Toric		1.55	36
Expected Residual Refraction	-0.76	0.52	126



Rotating the Toric IOL 34°
Clockwise should minimize
the astigmatism.

+1.5D Induced

OPTIONS?



ROTATE

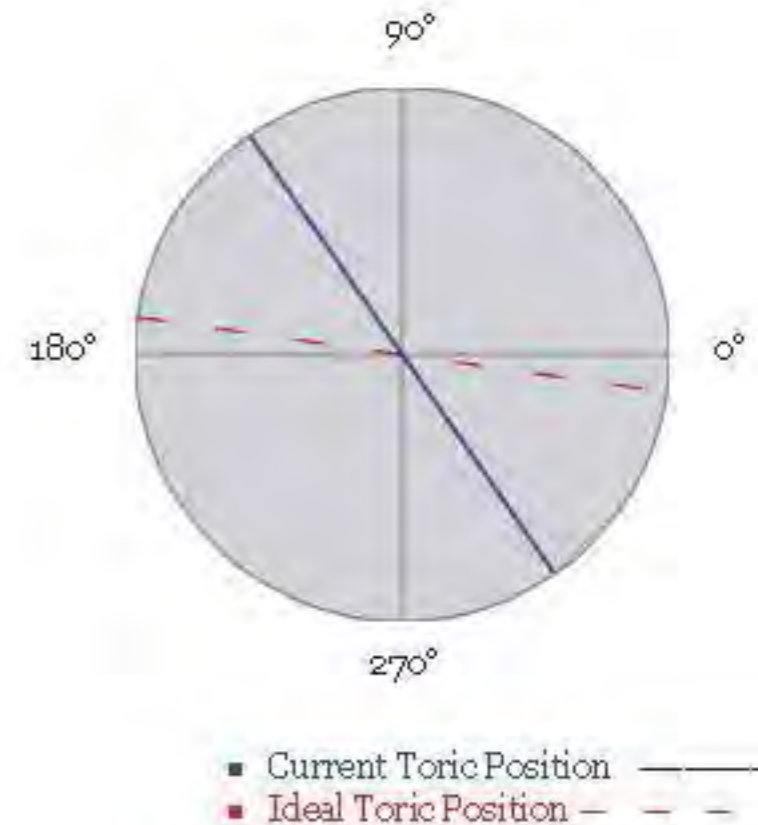
CASE 6

Entered Data

	Sphere	Cylinder (plus power)	Axis (Deg)
Current Refraction	-3.00	3.25	012
Toric Lens		2.06	125

Calculated Results

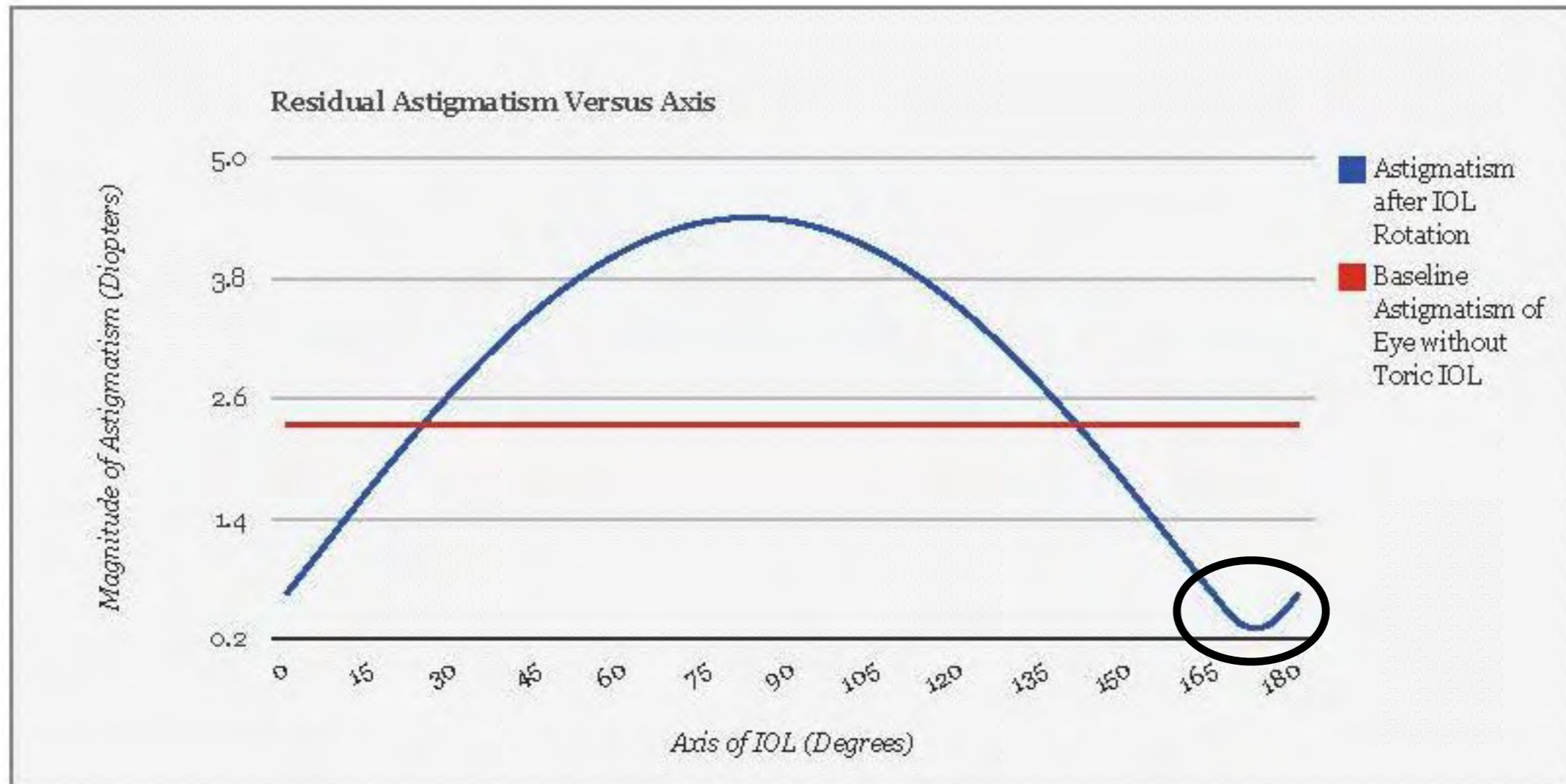
	Sphere	Cylinder (plus power)	Axis (Deg)
Ideal Position of the Toric		2.06	172
Expected Residual Refraction	-1.52	0.28	176



**Rotating the Toric IOL 133°
Clockwise should minimize
the astigmatism.**

+3D Induced

OPTIONS?



ROTATE

FUTURE CONSIDERATIONS

- Better IOL calculators
- Account for & measure posterior astigmatism (Doug Koch)
- Improved intraoperative marking
- Intraoperative aberrometry for IOL power & positioning

ASTIGMATISM COURSE SUMMARY

- Astigmatism remains significant barrier to uncorrected acuity
- Astigmatism management critical for cataract surgery success
- Variety of Astigmatism management strategies available
- Topographic analysis essential for all premium IOL options

ASTIGMATISM COURSE SUMMARY

- Premium IOL utilization increasing
- Multiple toric IOL options exist
- Toric Multifocal IOL coming soon (to US)
- New methods may improve toric IOL outcomes

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J. BRADLEY RANDLEMAN, MD
Professor of Ophthalmology, Director, Cornea, External Disease, and Refractive Surgery Service

J. Bradley Randleman, MD is one of the nation's top corneal researchers and surgeons and an expert on everything from LASIK to the latest FDA approved treatments for corneal cross-linking surgery.



ALENA REZNIK, MD
Assistant Professor of Clinical Ophthalmology

Dr. Reznik specializes in early detection and treatment of glaucoma and cataracts as well as novel surgical techniques for advanced cases. Her research interests are minimally invasive glaucoma surgery and new approaches to eye emergencies. She is a principal investigator on clinical trials for glaucoma medications and surgical devices.



DAMIEN C. RODGER, MD, PhD
Assistant Professor of Clinical Ophthalmology

Dr. Rodger's clinical interests include diabetic retinopathy, macular degeneration, medical retina, retinal detachment, uveitis and vitreoretinal surgery. He has conducted research on the design, fabrication, and testing of high-density microtechnologies for retinal and spinal cord prostheses, and has been instrumental in the development of other novel bioMEMS.

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Time: 7:00pm

Location:

**Maggiano's Little Italy at The Grove
189 The Grove Dr. Suite Z80**

Los Angeles, CA 9036

RSVP: Lina Poyzner at
lina.poyzner@med.usc.edu

Program:

**Glaucoma (Optic Nerve Cupping),
presented by Dr. Reznik — 1 Hour**

**Retina (OCT Reading and OCT Enigmas),
presented by Dr. Rodger — 30 min.**

**Cornea (Cross Linking),
presented by Dr. Randleman — 30 min.**

USC Roski Eye Institute • 323-442-6335 • www.usceye.org • Clinics conveniently located at:

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1450 San Pablo Street, 4th Floor
Los Angeles, CA 90033
323 442-6335

Beverly Hills Clinic

USC Roski Eye Institute
9033 Wilshire Boulevard, Suite 360
Beverly Hills, CA 90211
310-601 3366

Pasadena Clinic

USC Roski Eye Institute
625 S. Fair Oaks Avenue, Suite 400
Pasadena, CA 91105
626 796-0293

Arcadia Clinic

USC Roski Eye Institute
65 N. First Avenue, Suite 101
Arcadia, CA 91006
626 446 2122

CURRICULUM VITAE
JAMES BRADLEY RANDLEMAN
NOVEMBER 1, 2016

PERSONAL INFORMATION:

Work

USC Roski Eye Institute
1450 San Pablo Street Suite 4700
Los Angeles, CA, 90033
Phone: 323-442-6425
Fax: 323-442-6412
Work Email: randlema@usc.edu

Home

5550 Wilshire Blvd
Apt 334
Los Angeles, CA, 90036
Citizenship: United States

EDUCATION AND PROFESSIONAL APPOINTMENTS

EDUCATION:

- 1988-1992 Bachelor of Arts, Biology-Psychology Major, *Columbia College at Columbia University, New York City, New York*
- 1992-1994 Graduate Studies, Biology/Chemistry, *Sam Houston State University*
Huntsville, Texas
- 1994-1998 Doctor of Medicine, *Texas Tech University School of Medicine*
Lubbock, Texas

POST-GRADUATE TRAINING:

- 1998-1999 Transitional Year Residency (Internship), *Atlanta Medical Center, Atlanta, Georgia*
- 1999-2002 Residency in Ophthalmology, *Emory University School of Medicine, Department of Ophthalmology, Atlanta, Georgia*
- 2001-2002 Chief Resident, Ophthalmology, *Emory University School of Medicine, Department of Ophthalmology, Atlanta, Georgia*
- 2003-2004 Fellow, Cornea, External Disease, & Refractive Surgery Emory University School Of Medicine, Department of Ophthalmology Atlanta, Georgia

Continuing Professional Development Activities:

- 2007 Junior Faculty Development Course, Emory University, School of Medicine
- 2009 Leadership Development Program, American Academy of Ophthalmology

HONORS, AWARDS:

- 1989-1992 Columbia College Achievement Scholarship
- 1992 Bronze Crown Award for Excellence in Student Leadership, Columbia College
- 1992 Dean's List, Columbia College
- 1994 Beta Beta National Honor Society, Sam Houston State University
- 1996 Endowment Scholarship for Leadership and Academic Excellence, Texas Tech School of Medicine
- 1997 Junior Alpha Omega Alpha Medical Honor Society, Texas Tech SOM

- 1998 Merck Pharmaceuticals Quest for Excellence Award, Texas Tech SOM
- 2001 Outstanding Teaching Resident Award, Emory University
- 2004 Claes Dohlman Fellow Society (Outstanding Corneal Fellow in Nation)
- 2006 Best Poster, American Academy of Ophthalmology
- 2007 Best Paper (Refractive), American Academy of Ophthalmology Annual Meeting
- 2007 Best Paper of Session, American Society of Cataract and Refractive Surgery
- 2007 Secretariat Award, American Academy of Ophthalmology
- 2008 Best Paper of Session, American Society of Cataract and Refractive Surgery
- 2008 Achievement Award, American Academy of Ophthalmology
- 2010 Best Paper of Session, American Society of Cataract and Refractive Surgery
- 2010 Premier Surgeon P250 – selected as inaugural member as leading innovator in the field of premium IOL implant surgery
- 2010 Binkhorst Young Ophthalmologist Award, American Society of Cataract and Refractive Surgery
- 2011 Leading Ophthalmologists in America, named by Becker's ASC Review
- 2011-present America's Top Doctors (Ophthalmology), Castle Connolly, Ltd.
- 2011 Kritzinger Memorial Award, International Society of Refractive Surgery
- 2012 *US News & World Reports* Top Ophthalmologists
- 2014 Senior Achievement Award, American Academy of Ophthalmology
- 2015 John H. and Helen S. Hughes Professorship in Ophthalmology, Emory University
- 2015 Recognition Award (Inaugural Award), International Society of Refractive Surgery
- 2016 Premier Surgeon 300 – leading innovator in premium refractive surgery, Ocular Surgery News
- 2016 Jose Ignacio Barraquer Award. Brazilian Society of Cataract and Refractive Surgery
- 2016 Atlanta's Best Doctors, Atlanta Magazine
- 2016 International Gold Medal, Indian Intraocular Implant & Refractive Society
- 2016 Founder's Award, International Society of Refractive Surgery

ACADEMIC APPOINTMENTS (CURRENT):

2016-Present: Professor of Clinical Ophthalmology, Keck School of Medicine of USC, Los Angeles, CA

ACADEMIC APPOINTMENTS (PREVIOUS):

2002-2003 Clinical Instructor & Chief Resident, Department of Ophthalmology,

Emory University, Atlanta, GA

- 2004-2008 Assistant Professor of Ophthalmology, Emory Eye Center, Emory University, Cornea, External Disease, & Refractive Surgery Section
- 2008-2012 Associate Professor of Ophthalmology, Emory Eye Center, Emory University, Cornea, External Disease, & Refractive Surgery Section
- 2012-2016 Professor of Ophthalmology, Emory University School of Medicine, Atlanta, GA
- 2015-2016 John H. and Helen S. Hughes Professorship in Ophthalmology, Emory University School of Medicine, Atlanta, GA, USA

ADMINISTRATIVE APPOINTMENTS (CURRENT):

- 2016-present: Director, Cornea & Refractive Surgery Service, USC Roski Eye Institute, Los Angeles, CA
- 2016-present: Medical Director, Keck Medical Center of USC, Beverly Hills, CA

ADMINISTRATIVE APPOINTMENTS (PREVIOUS):

- 2002-2004 Assistant Residency Program Director, Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA
- 2007-2012 Director, Cornea, External Disease, & Refractive Surgery Fellowship, Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA
- 2010-2012 Interim Director, Cornea, External Disease, & Refractive Surgery Service, Emory Eye Center, Emory University School of Medicine, Atlanta, GA
- 2012-2016 Director, Cornea, External Disease, & Refractive Surgery Service, Emory Eye Center, Emory University School of Medicine, Atlanta, GA

Licensures / Boards:

Georgia, issued 1999
California, issued 2016

Specialty Boards:

American Board of Ophthalmology 2005 (recertification completed 2015)

TEACHING

DIDACTIC TEACHING:

- Institution*
- 1992-1994 Teaching Assistant, Introductory Biology, Sam Houston State University
- 1995-1997 Teaching Assistant, Gross Anatomy, Texas Tech University School of Medicine
- 2007-2016 Lecturer, Biology of the Eye Course, Emory University. 2-3 lecture hours/year
Topics: Cataract Surgery, Red eye, and Refractive Surgery
- 2015 Manuscript Writing. Junior Faculty Development Course, Emory University School of Medicine

Ophthalmology Residency:

2003-2016 Lecturer for the Residency Training Program, Emory University
 Department of Ophthalmology
Topics: Blepharitis, *Corneal Surface Issues: Lumps, Bumps, Spots & Dots,*
 Chemical Injuries, Ectatic Corneal Disease, Penetrating Keratoplasty: Indications &
 Surgical technique, Penetrating Keratoplasty: Outcomes/complications, Refractive Surgical
 Screening, Refractive Surgical techniques: LASIK, PRK, & Phakic IOLs, Refractive Surgery
 Complications, Corneal Topography: Basic & Advanced, Corneal Cross-Linking,
 Femtosecond-assisted Cataract Surgery, IOL Repositions & Exchanges, IOL Selection
Frequency: 12 hour long lectures per year

CME COURSES DEVELOPED

National/International

Administrative Positions:

2007-2010	Program Committee, American Society of Cataract and Refractive Surgery
2008	Program Planning Committee, ASCRS 2008 Winter Update Meeting
2008	Organizer, Southeastern Cataract, Cornea, and Refractive Surgery Conference
2012-2014	Co-Chair, International Congress of Corneal Cross-Linking
2016	Co-Chair, Corneal Cross-Linking Experts Meeting

Sessions as chair:

2008-2010	Chair, Young Physicians and Residents Symposium: Challenging Video Cases for the Young Surgeon, American Society of Cataract and Refractive Surgery Annual Meeting
2010	Symposium Chair, World Ophthalmology Congress Refractive Surgery Subspecialty Day, Berlin Germany
2010	Symposium Chair, World Ophthalmology Congress, Berlin Germany
2011	Symposium Chair, ISRS/Pan American Society of Ophthalmology Annual Meeting, Buenos Aires, Argentina
2011	Session Chair, ASCRS Cornea Day, San Diego, CA
2012	Co-Chair & Faculty, ISRS/AAO Symposium: Introduction to Refractive Surgery for Residents, AAO Annual Meeting, Chicago, IL
2013	Chair, ISRS Symposium, ESCRS Annual Meeting, Amsterdam, Netherlands
2011-present	Session Chair, The Journal of Refractive Surgery's Hot, Hotter, Hottest Session. ISRS/AAO Refractive Surgery Subspecialty Day, ISRS/AAO Annual Meeting
2016	Planning Committee & Session Chair, Course on Advanced Cornea Surgery (CoACS). Emory University School of Medicine. Atlanta, GA
2016	Symposium Co-Chair, SYM 43 Therapeutic & Refractive Cross-Linking, American Academy of Ophthalmology Annual Meeting, Chicago, IL

Formal Courses Given for CME

2005	Instructor, Clinical Applications of Corneal Confocal Microscopy, American Academy of Ophthalmology Annual Meeting, Chicago, IL
2005	Senior Instructor, Surgical and Nonsurgical Management of Refractive Error, & Irregular Astigmatism, and Ectasia after Corneal Refractive Surgery, American Academy of Ophthalmology Annual Meeting, Chicago, IL
2005	Senior Instructor, Introduction to the Alphacor Keratoprosthesis, American Academy of Ophthalmology Annual Meeting, Chicago, IL
2007	Instructor, Symposium 507: Important Current Issues for Refractive Surgeons, American Academy of Ophthalmology Annual Meeting, New Orleans, LA, 2007
2007-present	Senior Instructor, AAO Course: Advanced Corneal Topographic Analysis, American Academy of Ophthalmology Annual Meeting
2007-present	Senior Instructor AAO Course: Surgical Management of Astigmatism in Cataract and Refractive Surgery, American Academy of Ophthalmology Annual Meeting
2008-2014	Faculty, Identifying Risk Factors for Ectasia: Practical Approach, American Society of Cataract and Refractive Surgery Annual Meeting
2008-2011	Faculty, Corneal Evaluation of the Refractive Surgery Patient, American Society of Cataract and Refractive Surgery Annual Meeting
2008	Instructor, AAO LAB229B-Laser Refractive Surgery for Ophthalmology Residents. American Academy of Ophthalmology Annual Meeting
2008	Instructor, AAO Course 190-LEO Clinical Update Course on Refractive Surgery. American Academy of Ophthalmology Annual Meeting
2009	Instructor, Course 207, Risk Factors, Diagnosis, and Treatment of Refractive Surgical Complications, AAO Annual Meeting, San Francisco, CA
2009	Senior Instructor, Course B135, Refractive Surgery Roundtable: Ectasia, How to Prevent it, AAO Annual Meeting, San Francisco, CA
2010	Senior Instructor, Controversies in Topographic Evaluation Course. American Society of Cataract and Refractive Surgery Annual Meeting, Boston, MA
2010	Senior Instructor, Pushing the Envelope in Refractive Surgery: BCSC 13 Course, American Academy of Ophthalmology Annual Meeting, Chicago, IL
2011-present	Moderator: ISRS/AAO Subspecialty Day Meeting. The Journal of Refractive Surgery's Hot, Hotter, Hottest: Late Breaking News Session
2011	Faculty, ASCRS Symposium: Cataract Surgery and the Compromised Cornea. ASCRS Annual Meeting, San Diego, CA
2012	Faculty, ASCRS Symposium: Controversies in Cataract and Refractive Surgery. ASCRS Annual Meeting, Chicago, IL
2012	Faculty, ASCRS Symposium: Cornea Clinical Committee Highlights. ASCRS Annual Meeting, Chicago, IL
2012	Faculty, ASCRS Course: Interactive Video Dialog on the Complicated Cataract. ASCRS

	Annual Meeting, Chicago, IL
2012	Senior Instructor, ASCRS Course: Phaco Flip: Underutilized Technique that Every Cataract Surgeon Should Know. ASCRS Annual Meeting, Chicago, IL
2013-2014	Faculty, ARVO Course: Predicting, Measuring and Treating Changes in Corneal Biomechanics
2014	Faculty, ASCRS Course: Early Detection and Management of Keratoconus Including Collagen Crosslinking. ASCRS Annual Meeting
2014-present	Faculty, Current State of CXL (Corneal Collagen Cross-Linking): Controversies & Recommendations, ESCRS Annual Meeting
2014-present	Instructor, Course 314 - Danger Zone: Refractive Surgery Nightmares and Worst-Case Scenarios AAO Annual Meeting, Chicago, IL
2015-present	Senior Instructor, ASCRS Course: ASCRS Course: Bring Your Own Topography. ASCRS Annual Meeting, San Diego, CA
2015-present	Senior Instructor, AAO Course: Corneal Cross-linking: Basic and Advanced Indications, American Academy of Ophthalmology Annual Meeting
2015-present	Faculty, AAO Course: Therapeutic Corneal Refractive Surgery, American Academy of Ophthalmology Annual Meeting
2016	Faculty, Toric IOLs Made Simple. European Society of Cataract & refractive Surgery Annual Meeting, Copenhagen Denmark
2016	Instructor Course 689 - Toric IOLs 2016: Choice, Alignment, Results, and Management of Complications, American Academy of Ophthalmology Annual Meeting, Chicago, IL

UNDERGRADUATE, GRADUATE AND MEDICAL STUDENT (OR OTHER) MENTORSHIP:

2005	Foster JB	Medical Student	Intraocular Lens Power Calculations after LASIK
2007	Hu MH	Medical Student	High Order Aberration Changes after Wavefront-Optimized PRK and LASIK
2007	White AJ	Medical Student	Incidence and Risk Factors for Enhancement after Wavefront-Optimized PRK & LASIK
2012	Nunnery, EW	Medical Student	Corneal Biomechanical Evaluation of Refractive Surgical Candidates
2014	Lockwood, J	Medical Student	IOL Calculations for Toric IOLs and post-LASIK

POSTGRADUATE MENTORSHIP:

Cornea Fellowship Training:

1. Andreea Partal, M.D. (2005), University of Tennessee, Memphis, TN
2. Chris Banning, M.D. (2006), Private practice, Kansas City, KS
3. Michael McMann, M.D. (2006), Private practice, Ewa Beach, HI
4. Ajit Nemi, M.D., (2007), Private practice, Atlanta, GA
5. Terrence Doherty, M.D. (2007), Private practice, Nashville, TN
6. Evan S. Loft, M.D. (2008), Private practice, Atlanta, GA

7. Gaston Lacayo, M.D. (2008), Rush University Medical Center, Chicago, IL
8. Olivia A. Lee, M.D. (2009), Private practice, Austin, TX
9. Maria A. Woodward, M.D. (2009), University of Michigan, Ann Arbor, MI
10. Seema Patel, M.D. (2010), Private practice, New Jersey
11. Tyler A. Hall, M.D. (2010), University of Alabama Birmingham, Birmingham, AL
12. Yuri McKee, M.D. (2011), Private practice, Mesa AZ
13. Rupa D. Shah, M.D. (2011), Case Western Reserve University, Cleveland, OH
14. Trent Albright, M.D. (2012), Private practice, Columbus, OH
15. Jennifer G. Bromley, M.D. (2012), Private practice, Savannah, GA
16. Claudia Perez-Straziota, M.D. (2013), USC Roski Eye Institute, Los Angeles, CA
17. Maulik Zaveri, M.D. (2013), Private practice, San Diego, CA
18. Sonia Belliapa, M.D. (2014), Private practice, New Jersey
19. Samir Vira, M.D. (2014), Private Practice, Atlanta, GA
20. John Welling, M.D. (2015), International Corneal fellowship, Salt Lake City UT
21. David Sackel, M.D. (2015), Private practice, Atlanta, GA
22. Ilyse Habermna, M.D. (2016), NYU School of Medicine, NY, NY
23. Anam Qureshi, M.D. (2016), NYU School of Medicine, NY, NY

RESIDENCY PROGRAM:

2000-2003:

Nick Anderson, M.D.; Doug Blackmon, M.D.; Sue Hewitt, M.D.; Saxon Moss, M.D.;
Cathy Reed, M.D.

2001-2004:

Claxton Baer, M.D.; Daniel Chang, M.D.; Eric Gershenbaum, M.D.; Sean Pieramici, M.D.; Jennifer Scruggs,
M.D.

2002-2005:

Chris Banning, M.D.; Kevin Barber, M.D.; Chris Bergstrom, M.D.; Hunter Cherwek, M.D.; Keith Shuler, M.D.

2003-2006:

Steve Bailey, M.D.; Blaine Cribbs, M.D.; Wayne Lo, M.D.; Mark Spirn, M.D.;
Leiv Takle, M.D.

2004-2007:

John Davies, M.D.; Evan Loft, M.D.; Kristina Price, M.D.; Adrienne Ruth, M.D.;
Brian Schwent, M.D.

2005-2008:

Emily Graubart, M.D.; Paral Khator, M.D.; Phoebe Lenhart, M.D.; Paul Pruett, M.D.; Jeremy Wolfe, M.D.; Maria
Woodward, M.D.

2006-2009:

Michele Crosby, M.D., Valerie Elmalem, M.D., Nelam Gor, M.D., Gene Lee, M.D., Purnima Patel, M.D., Grace
Prakalapakorn, M.D.

2007-2010:

Alok Bansal, M.D., Bonnie Germain, M.D., Carolyn Hebson, M.D., David Paine, M.D., John Payne, M.D.,
Krishna Sanka, M.D.

2008-2011:

Jennifer Bromley, M.D., Vishak John, M.D., Johnstone Kim, M.D., Gene Lee, M.D., Lyndon Lee, M.D., Pryanka
Sood, M.D.

2009-2012:

Jeremy Jones, M.D., Cecilia Jung, M.D., Sumitra Khandelwal, M.D., Philip Laird, M.D., Claudia Perez-Straziota,
M.D., Johua Robinson, M.D.

2010-2013:

Matthew Emanuel, M.D., Lawson Grumbine, M.D., Neil Palejawala, M.D., David Risner, M.D., Gagan Sawahany, M.D., Paul Walia, M.D.

2011-2014:

Jihan Akthar, M.D., Felicia Fountain, M.D., Vincent Ho, M.D., Luke Peterson, M.D., Jim Sargent, M.D., Chris Stelton, M.D.

2012-2015:

Abdulah Jeroudi, M.D., Jennifer Kim, M.D., Jessica Shantha, M.D., Michael Shumski, M.D., Heather Weissman, M.D., Monica Zhang, M.D.

2013-2016: Andrew Anzeljc, M.D., Daniel Connor, M.D., Caroline Cromelin, M.D., Joshua Levinson, M.D., William Pierce, M.D., Praneetha Thulasi, M.D.

INTERNATIONAL FELLOWS:

2007-2008 Claudia Perez-Straziota, MD, Venezuela

2010-2011 Karolinne Maia Rocha, MD, PhD, Brazil

2014-2015 Sang Woo Kim, M.D., South Korea

2015-2106 Alvaro Broncano Fidalgo, M.D., Spain

SERVICE

DEPARTMENT SERVICE:

1999-2000 Resident Representative, Applicant Interview Committee

2001-2002 GME Representative for Academic Affairs, Emory University Department of Ophthalmology

2001-2009 Residency Education Committee, Emory University Department of Ophthalmology

2002-2011 Resident Application Interview Committee, Emory University Department of Ophthalmology

2004-2005 Chair, Service Committee, Emory University Department of Ophthalmology
Academic Retreat

2005-2012 Medical Students Education Committee, Emory University Department of Ophthalmology

2005-2015 Research Advisory Committee, Emory University Department of Ophthalmology

2005-2016 Director of Resident Research, Emory University Department of Ophthalmology

2009-2016 Faculty Development and Mentoring Committee, Emory University Department of Ophthalmology

2010-2016 Executive Committee, Emory University Department of Ophthalmology

MEDICAL SCHOOL SERVICE:

1998	Student Representative, Education Planning Committee Curriculum Subcommittee, Texas Tech School of Medicine, Lubbock, TX
2007-2016	ASC Peer Review Member, Emory University
2016-present	Mentoring and Career Advancement Task Force, Keck School of Medicine of USC
2016-present	Clinical Strategy Design Team, Keck School of Medicine of USC

HOSPITAL OR MEDICAL GROUP SERVICE:

2007	Georgia Society of Ophthalmology Representative, Medicare Carrier Advisory Committee
2007	Chairman, Third Party Payer Committee, Georgia Society of Ophthalmology
2007-2008	Member, Georgia Society of Ophthalmology Council

PROFESSIONAL SERVICE:

2004-2006	Young Physicians and Residents Clinical Committee, American Society of Cataract and Refractive Surgery
2005-2007	Refractive Surgery Management Specialty Information Team Clinical Committee, American Academy of Ophthalmology
2007-2010	COMPASS Panel for Refractive Management/Intervention, American Academy of Ophthalmology
2007-2009	Executive Editor, Management of LASIK and PRK Complications Online Course, American Academy of Ophthalmology
2007-2009	Integrated Eyecare Taskforce, American Society of Cataract and Refractive Surgery
2007-2010	Chairman, Young Physicians and Residents Clinical Committee, American Society of Cataract and Refractive Surgery
2009-2014	Writing Committee, BSCS Section 13: Refractive Surgery, American Academy of Ophthalmology
2010-2011	Advisory Member, Young Physicians and Residents Clinical Committee, American Society of Cataract and Refractive Surgery
2010-2012	Member, Cornea Clinical Committee, American Society of Cataract and Refractive Surgery
2011-present	Member, International Society of Refractive Surgery (ISRS) International Meetings Committee
2011-present	Member (Ex-Oficio), International Society of Refractive Surgery (ISRS) Executive Committee
2011-present	Chair, Editorial Board, Journal of Refractive Surgery

CONSULTANTSHIPS AND ADVISORY BOARDS:

2014-present	Scientific Advisory Board, OptoQuest
2016-present	Medical Advisory Board, EMagine

PROFESSIONAL SOCIETY MEMBERSHIPS:

1994-2000	American Medical Association
1999-2001	American College of Surgeons
1999-present	International Society of Refractive Surgery
1999-present	American Society of Cataract and Refractive Surgeons
1999-present	American Academy of Ophthalmology
1999-2010	Georgia Society of Ophthalmology
2003-present	Cornea Society (Member with Thesis, 2007-present)
2009-present	Pan American Society of Ophthalmology
2016-Present	Los Angeles County Society of Ophthalmology

RESEARCH AND SCHOLARSHIP

EDITORSHIPS AND EDITORIAL BOARDS:

2007-2010	Alternate Editor, The American Academy of Ophthalmology Ophthalmic News & Education (ONE) Network, Refractive Management & Intervention Section
2008-2011	Associate Editor, Journal of Refractive Surgery
2008-2011	Associate Editor, Journal of Cataract and Refractive Surgery
2011-present	Editor-In-Chief, Journal of Refractive Surgery
2014-present	International Editorial Board Member, Revista Mexicana de Oftalmologia (Mexican Journal of Ophthalmology)
2014-present	Editorial Board Member, EyeNet, American Academy of Ophthalmology

MANUSCRIPT REVIEW:

<i>Year-Year</i>	<i>Journal</i>
2002-present	<i>Cornea</i>
2003-present	<i>American Journal of Ophthalmology</i>
2003-present	<i>Journal of Cataract and Refractive Surgery</i>
2003-present	<i>Ophthalmology</i>
2005-present	<i>Eye</i>
2006-present	<i>Journal of Refractive Surgery</i>
2006-present	<i>Canadian Journal of Ophthalmology</i>
2006-present	<i>Archives of Ophthalmology</i>
2006-present	<i>Ophthalmic Surgery & Lasers</i>
2008-present	<i>British Journal of Ophthalmolog</i>
2011-present	<i>European Journal of Ophthalmology</i>

MAJOR AREAS OF RESEARCH INTEREST

My primary research focus is the measurement and management of corneal biomechanics. This manifests itself clinically in corneal refractive surgery screening protocols and management of keratoconus and related ectatic corneal diseases, especially with corneal cross-linking, and the identification, management, and prevention of complications after refractive surgery. A second clinical focus is maximizing refractive outcomes after cataract and IOL surgery, with particular emphasis on management of astigmatism.

GRANT SUPPORT - CURRENT:

GRANT SUPPORT - PAST:

Investigator status: Principal investigator

Funding source/type: Avedro, Inc.

Title: A Multi-Center, Randomized, Placebo-Controlled Evaluation of the Safety and Efficacy of the KXL System with VibeX (Riboflavin Ophthalmic Solution) for Corneal Collagen Cross-Linking in Eyes with Keratoconus (KXL-001)

Amount: TBD

Year(s): 2013-2016

Investigator status: Principal investigator

Funding source/type: JAEB

Title: Corneal Donor Study

Amount: \$17,171 (to date)

Year(s): 8/1/1999 - 7/31/2013

Investigator status: Sub investigator

Funding source/type: VisionCare Ophthalmic Technologies, Ltd., (industry)

Title: Five Year Follow-up of IMT-002 Patients: A Long Term Monitoring Study of IMT-002 Patients

Amount: \$28,245 (total for follow-up study)

Year(s): 3/21/2011- 3/21/2015

Investigator status: Secondary Investigator

Funding source/type: Ophtec USA, Inc. (industry)

Title: Clinical Study of OPHTEC Model 311 Iris Reconstruction Lens for the Treatment of Visual Disturbances From Partial or Total Absence of the Human Iris

Amount: \$7,000

Year(s): 2007-2016

Investigator status: Principal investigator

Funding source/type: Clinic Research Consultants

Title: Topography Guided LASIK using the Allegretto Wave Eye Q 400 Excimer Laser System the Treatment of Manifest and Cornea based Myopic and Hyperopic Optical Errors

Amount: \$ 16,700

Year(s): 1/27/10-12/31/10

Investigator status: Principal co-investigator

Funding source/type: Peschke Meditrade GmbH, Switzerland

Title: Safety and Effectiveness of the UV-X System for Corneal Collagen Cross-Linking in Eyes with Corneal Ectasia after Refractive Surgery (UVX-002)

Year(s): 2007-2010

Investigator status: Principal co-investigator

Funding source/type: R. Doyle Stulting, M.D., Ph.D.

Title: Safety and Effectiveness of the UV-X System for Corneal Collagen Cross-Linking in Eyes with Progressive Keratoconus (UVX-001)

Year(s): 2007-2010

Investigator status: Principal Investigator

Funding source/type: Lux Biosciences, Inc. (industry)

Title: Corneal Allograft Rejection Study LX201-01: A Multi-center, Placebo-Controlled, Randomized, Parallel-Group Dose Ranging Study to Assess the Efficacy and Safety of LX201 for Prevention of Corneal Allograft Rejection Episodes and Graft Failure Following Penetrating Keratoplasty with LX201 Implantation in Subjects Who Are at Increased Immunological Risk

Amount: \$130,000

Year(s): 2007-2010

Investigator status: Secondary Investigator

Funding source/type: Lux Biosciences, Inc. (industry)

Title: Corneal Allograft Rejection Study LX201-02: A Multi-Center, Dose-Ranging Study to Assess the Efficacy and Safety of LX201 for the Prevention of Corneal Allograft Rejection in Patients Who Have Experienced a Rejection Episode Following Corneal Transplantation

Amount: \$120,000

Year(s): 2007-2010

Investigator status: Principal Investigator

Funding source/type: American Society of Cataract and Refractive Surgery Foundation Grant (\$5000), RPB Departmental Research Grant (\$3000)

Title: Analysis of Quantitative Corneal Stromal Cohesive Tensile Strength

Amount: \$8,000

Year(s): 2007-2009

Investigator status: Principal Investigator,

Funding source/type: Ophtec USA, Inc. (industry)

Title: US Clinical Investigation of the Artisan Myopia Lens for the Correction of High Myopia, USFDA – Industry Sponsored Clinical Trial

Amount: \$7,000

Year(s): 2005-2007.

Investigator status: Co-Principal Investigator and Faculty Advisor

Funding source/type: Research to Prevent Blindness, Departmental Research Grant

Title: The effect of microkeratome oscillation rates and head-advance speeds on the quality of human LASIK interface surfaces

Amount: \$3,000

Year(s): 2006-2007

Protocols Approved for Human Investigation:

2006-2014	Visual outcomes after wavefront- optimized surface ablation Emory IRB00045849
2007-2010	A Multi-Center, Placebo-Controlled, Randomized, Parallel-Group, Dose-Ranging Study to Assess the Efficacy and Safety of LX201 Implantation for the Prevention of Corneal Allograft Rejection Episodes or Graft Failure in Subjects Who Have Experienced One or More Rejection Episodes Following Penetrating Keratoplasty. Emory IRB00004418
2007-2010	A Multi-center, Placebo-Controlled, Randomized, Parallel-Group Dose Ranging Study to Assess the Efficacy and Safety of LX201 for Prevention of Corneal Allograft Rejection Episodes and Graft Failure Following Penetrating

	Keratoplasty with LX201 Implantation in Subjects Who Are at Increased Immunological Risk Emory IRB00003500
2008-2010	Safety and Effectiveness of the UV-X System for Corneal Collagen Cross-Linking in Eyes with Corneal Ectasia or Progressive Keratoconus Emory IRB00005828
2009-2010	Safety Profiles of Conventional Monofocal Intraocular Lenses (IOLs) and Multifocal IOLs Emory IRB00022314
2010-2014	The Cornea Donor Study Emory IRB00024924
2010-2011	Accuracy of intraocular lens power prediction using the Haigis, Hoffer Q, Holladay 1, Holladay 2, and SRK/T formulas Emory IRB00012667
2013-2016	Management of intraocular complications associated with anterior and posterior scleritis Emory IRB00047692
2013-2016	Advanced Corneal Biomechanical Evaluation in Refractive Surgical Patients Emory IRB00061671
2013-2016	Pediatric Corneal Topography: Imaging for Early Detection of Keratoconus Emory IRB00062526
2014-2016	Intraocular Lenses Power Calculations in Challenging Cases Emory IRB00072092

INVITED LECTURES, SYMPOSIA, KEYNOTE ADDRESSES

2009	Invited Speaker, Vanderbilt Eye Institute Comprehensive Ophthalmology: Pearls XII Course, Nashville TN
2010	Invited Speaker, University of Florida College of Medicine, Refractive Surgery Pearls for Practice Course
2010	Invited Speaker, Egyptian Society of Cataract and Refractive Surgery Annual Meeting
2010	Invited Speaker, Colombian Society of Ophthalmology International Ophthalmology Congress, Bogota Colombia
2010	Invited Speaker, Atlantic Eye Symposium, Halifax Nova Scotia
2011	Invited Speaker, Bascom Palmer Eye Institute Cataract & Refractive Surgery Congress, Miami, FL
2011	Invited Speaker, Canadian Ophthalmology Society (COS) Annual meeting, Vancouver. BC
2012	Invited Speaker, Refractive.online & SICSSO International Congress, Rome, Italy
2012	Invited Speaker, 3rd ISRS /Magrabi Meeting & Saudi Ophthalmological Society, Riyadh KSA

- 2013 Invited Speaker, Lo Mejor en Cornea, March 21-23, 2013, Mexico City, DF
- 2013 Invited Speaker, Athens/ISRS Refractive Surgery Course, Athens Greece,
- 2013 Invited Speaker, University of Sao Paulo 16th Annual Ophthalmology Congress, Sao Paulo, Brazil
- 2013 Visiting Professor, Wills Eye Hospital, Philadelphia, PA
- 2014 Keynote Speaker, Bascom Palmer Eye Institute Cataract and Refractive Surgery Congress, Miami FL
- 2014 Invited Speaker, New Orleans Academy of Ophthalmology, New Orleans LA
- 2014 Invited Speaker, 20th Annual White Nights International Ophthalmology Congress, St. Petersburg, Russia
- 2014 Invited Speaker, 20th Annual Cornea & Refractive Surgery International Course, Riviera Nayarit, Mexico
- 2014 Invited Speaker, Chilean Congress of Ophthalmology, Vina del Mar, Chile
- 2014 Visiting Professor, SUNY Downstate Ophthalmology Department, Brooklyn, NY
- 2015 Invited Speaker, Nashville Academy of Ophthalmology Meeting, Nashville, TN
- 2015 Invited Speaker, Les Entretiens Ophtalmologiques de l'Université de Montréal 2015 (EOUM), Montreal, Quebec
- 2015 Drouilhet Visiting Professor, UT Houston Department of Ophthalmology, Houston, TX
- 2015 Keynote Speaker, Congresso Brasileiro Oftamologia, Florianopolis, Brazil
- 2015 Keynote Speaker, Nebraska Academy of Eye Physicians and Surgeons Fall Scientific Meeting, Omaha, NE
- 2015 Keynote Speaker, Apectasias Inaugural Meeting on Corneal Ectasia. Mexico City (Coyoacán), DF
- 2016 Keynote Speaker, SUNY Downstate Medical Center Current Concepts in Ophthalmology, Atlantic City, NJ
- 2016 Guest of Honor, New England Ophthalmological Society Meeting, Boston MA
- 2016 Keynote Speaker, Duke Eye Center Controversies in Cornea and Cataract Surgery, Durham, NC
- 2016 Jose Ignacio Barraquer Lecture. Brazilian Society of Cataract and Refractive Surgery XIV International Congress of Cataract and Refractive Surgery, São Paulo, Brazil
- 2016 Invited Speaker, USC Roski Eye Institute 41st Anniversary Symposium, Los Angeles CA
- 2016 Invited Speaker, Annual Conference of Indian Intraocular Implant & Refractive Society, Chennai, India

INVITED GRAND ROUNDS, CME LECTURES

Invitations to National or International Conferences:

- 2005 Faculty, ASCRS Summer Refractive Congress, American Society of Cataract and Refractive Surgery, Seattle WA
- 2005 Faculty, Turkish Ophthalmology Society National Meeting, Antalya, Turkey
- 2005-2011 Faculty, Southeastern Cataract, Cornea, and Refractive Surgery Conference
- 2007 Faculty, ASCRS Summer Refractive Congress, American Society of Cataract and Refractive Surgery, San Diego CA
- 2007 Faculty, Cornea Subspecialty Day, American Academy of Ophthalmology Annual Meeting, New Orleans, LA
- 2008 Faculty, ASCRS 2008 Winter Update Meeting. Riviera Maya, MX
- 2008 Faculty, Understanding, Preventing, and Treating Post-LASIK Corneal Ectasia, 2008 World Ophthalmology Congress, Hong Kong
- 2008 Faculty, Cornea Society Symposium, Hot Topics in Cornea and External Disease, American Society of Cataract and Refractive Surgery Annual Meeting, Chicago, IL
- 2008 Faculty, Management of High Risk Corneal Grafts and Current Trends in Eye Banking, 2008 World Ophthalmology Congress, Hong Kong
- 2008 Faculty, AAO Refractive Surgery Subspecialty Day
- 2009 Faculty, ASCRS 2009 Winter Update Meeting, Riviera Maya, Mexico
- 2009 Faculty, ESCRS Winter Refractive Meeting, Basics Optics Course, Rome Italy
- 2009 Faculty, Cleveland Clinic Innovations in Ophthalmology Course, Key Largo, FL
- 2009 Faculty, Cornea Day. Medical/Surgical Corneal Conditions and Controversies in Cataract Surgery ASCRS Annual Meeting, San Francisco CA
- 2009 Faculty, AAO Refractive Surgery Subspecialty Day, San Francisco CA
- 2009 Faculty, AAO Annual Meeting, San Francisco, CA
- 2010 Faculty, AAO Refractive Surgery Subspecialty Day, Chicago, IL
- 2010 Faculty, AAO Annual Meeting, Chicago, IL
- 2011 Faculty, 6th International Congress of Collagen Cross-Linking, Milan, Italy
- 2011 Faculty, ISRS/SOE Corneal Collagen Cross-linking Symposium, European Society of Ophthalmology (SOE) Biennial Meeting, Geneva, Switzerland
- 2011 Faculty, ASCRS Symposium: Cornea Clinical Committee Highlights Session. ASCRS Annual Meeting, San Diego, CA
- 2011 Faculty, ISRS Symposium, European Society of Cataract & Refractive Surgery, Vienna Austria

- 2011 Faculty, Eurokeratoconus Annual Meeting, Bordeaux, France
- 2011 Faculty, ISRS/AAO Refractive Surgery Subspecialty Day, Orlando, FL
- 2011 Faculty, AAO Annual Meeting, Orlando, FL
- 2012 Faculty, Hawaiian Eye Meeting, Maui, HI
- 2012 Faculty, ASCRS Cornea Day. ASCRS Cornea Day Annual Meeting, Chicago, IL
- 2012 Faculty, ISRS/AAO Refractive Surgery Subspecialty Day, ISRS/AAO Annual Meeting, Chicago, IL
- 2012 Faculty, 8th International Congress of Corneal Cross-Linking, Geneva, Switzerland
- 2013 Faculty, Hawaiian Eye Meeting, Hawaii, HI
- 2013 Faculty, OSN New York, New York City NY
- 2013 Faculty, ISRS/AAO Refractive Surgery Subspecialty Day, ISRS/AAO Annual Meeting, New Orleans, LA
- 2013 Faculty, 9th International Congress of Corneal Cross-Linking, Dublin, Ireland
- 2014 Faculty, International Society of Refractive Surgery (ISRS) Tokyo Summit
- 2014 Faculty, World Ophthalmology Congress (WOC), Tokyo Japan
- 2014 Faculty, ISRS Symposium: Three Big Debates & Controversies in Corneal Refractive Surgery, ESCRS Annual Meeting, London, UK
- 2015 Faculty, World Cornea Congress VII, San Diego, CA
- 2015 Faculty, Eucornea Meeting, Barcelona Spain
- 2015 Faculty, 11th International Congress of Corneal Cross-Linking, Boston, MA
- 2016 Faculty, WOC Symposium: World Forum of Ophthalmological Journal Editors, World Ophthalmology Congress, Guadalajara, MX
- 2016 Faculty, WOC Symposium: Pearls & Pitfalls for Selecting and Implanting Refractive IOLs, World Ophthalmology Congress, Guadalajara, MX
- 2016 Faculty, WOC Symposium: Clinical Decision-making with Cataract Complications, World Ophthalmology Congress, Guadalajara, MX
- 2016 Faculty, Aspen Corneal Society Annual Meeting, Aspen CO
- 2016 Faculty, ASCRS Cornea Day. ASCRS Annual Meeting, New Orleans, LA
- 2016 Faculty, Los Angeles County Optometric Society LACOS Meeting, Los Angeles, CA
- 2016 Faculty, ISRS/AAO Refractive Surgery Subspecialty Day, ISRS/AAO Annual Meeting, Chicago, IL
- 2016 Faculty, AAO Annual Meeting, Chicago, IL

Invited Presentations at National or International Conferences:

1. Adenovirus Reactivation after LASIK. Southeastern Cataract, Cornea, and Refractive Surgery Conference, Durham, NC, March 2004
2. Management of Corneal Ectasia after LASIK. Southeastern Cataract, Cornea, and Refractive Surgery Conference, Charleston, SC, March 2005
3. Why I Chose Academic Medicine. Young Physicians and Residents Clinical Committee Job Fair Didactic Session, American Society of Cataract and Refractive Surgery, Washington D.C., April 2005
4. Evidence of Alphacor Biointegration. Alphacor User's Meeting, Washington D.C., April 17, 2005
5. Intacs for Keratoconus. Georgia Society of Ophthalmology Annual Meeting, Sea Island, GA, July 29, 2005.
6. Intacs for Corneal Ectasia after LASIK. ASCRS Summer Refractive Congress, Seattle WA, August 2005
7. IOL Calculations after Refractive Surgery. ASCRS Summer Refractive Congress, Seattle WA, August 2005
8. Corneal Ectasia after LASIK. Turkish Ophthalmology Society National Meeting, Antalya Turkey, September 2005
9. Cataract Surgery in the Era of LASIK. American Academy of Ophthalmology/Turkish Ophthalmology Society Joint Panel, Turkish Ophthalmology Society National Meeting, Antalya Turkey, September 2005
10. Advances in Cataract Surgical Techniques, Materials, and Intraocular Lenses. American Academy of Ophthalmology/Turkish Ophthalmology Society Joint Panel, Turkish Ophthalmology Society National Meeting, Antalya Turkey, September 2005
11. Why I Chose Academic Medicine. Young Physicians and Re Young Physicians and Residents Clinical Committee Job Fair Didactic Session, American Society of Cataract and Refractive Surgery, San Francisco, CA, March 2006
12. Lens Based Refractive Surgery Challenging Cases. Young Physicians and Residents Clinical Committee Symposium, American Society of Cataract and Refractive Surgery, San Francisco, CA, March 2006
13. Bilateral Infectious Keratitis after PRK. Southeastern Cataract, Cornea, and Refractive Surgery Conference, Atlanta, GA, April 2006
14. The Surgical Management of Astigmatism. The Dulaney Foundation CPE Cornea Fellows Program. Dallas, TX, September 2006
15. Endothelial Keratoplasty. The Dulaney Foundation CPE Cornea Fellows Program. Dallas, TX, September 2006
16. Delayed Dislocated LASIK Flap Management. Southeastern Cataract, Cornea, and Refractive Surgery Conference, Miami, FL February 2007
17. Management of the Malfeasant IOL. Southeastern Cataract, Cornea, and Refractive Surgery Conference, Miami, FL February 2007
18. Management of Corneal Ectasia after LASIK. Cornea Day, San Diego, CA, May 2007
19. Management of the Refractive Surgery Patient with Previous Refractive Surgery. American Society of Cataract and Refractive Surgery, San Diego, CA, May 2007
20. Results of LASIK Survey to Residents and Young Physicians. American Society of Cataract and Refractive Surgery, San Diego, CA, May 2007
21. The Risks vs. Benefits of Performing PRK for FFKC. International Congress on Advanced Surface Ablation & SBK. Ft. Lauderdale FL, 2007
22. Quantitative Analysis of Corneal Stromal Cohesive Tensile Strength and its Relevance to Refractive Surgery. International Congress on Advanced Surface Ablation & SBK. Ft. Lauderdale FL, 2007

23. Is This Topography Abnormal? ASCRS Summer Refractive Congress, San Diego CA, August 2007
24. Is this Patient at Risk for Ectasia? ASCRS Summer Refractive Congress, San Diego CA, August 2007
25. Penetrating Keratoplasty and Ectasia Management, Cornea Subspecialty Day, American Academy of Ophthalmology Annual Meeting, New Orleans, LA, 2007
26. Validation of the Ectasia Risk Score System, Refractive Surgery Subspecialty Day, American Academy of Ophthalmology Annual Meeting, New Orleans, LA, 2007
27. Ectasia is not Preventable. Symposium 507: Important Current Issues for Refractive Surgeons, American Academy of Ophthalmology Annual Meeting, New Orleans, LA, 2007
28. Diagnosis and Management of Ectasia after LASIK. Association of Technical Personnel in Ophthalmology (ATPO) Annual Meeting, New Orleans, LA, 2007
29. Challenging Cases In keratorefractive Surgery. ASCRS 2008 Winter Update Meeting, Riviera Maya, Mexico
30. Collagen Cross Linking. ASCRS 2008 Winter Update Meeting, Riviera Maya, Mexico
31. SBK vs. Surface Ablation vs. LASIK. ASCRS 2008 Winter Update Meeting, Riviera Maya, Mexico
32. Screening Strategies for Identifying High Risk Patients. 2008 World Ophthalmology Congress, Hong Kong, July 2008
33. Pediatric Keratoplasty: Indications and Prognosis. 2008 World Ophthalmology Congress, Hong Kong, July 2008
34. Diagnosis and Management of Corneal Ectasia after LASIK. 2008 National Medical Association Scientific Assembly Atlanta, Georgia, July 2008.
35. Phakic Intraocular Lens Implantation in Forme Fruste Keratoconus. Southeastern Cataract, Cornea, and Refractive Surgery Conference, Asheville, NC, September 2008.
36. The Latest on Risk Factors for Ectasia. Refractive Surgery Subspecialty Day, American Academy of Ophthalmology Annual Meeting, Atlanta, GA, 2008
37. Expert Discussant 1: Ectasia: Refractive Surgery Subspecialty Day, American Academy of Ophthalmology Annual Meeting, Atlanta, GA, 2008
38. Keratorefractive Surgery: When PRK & When LASIK? ASCRS 2009 Winter Update Meeting, Riviera Maya, Mexico
39. Evaluating the Cornea with Scheimpflug Imaging. ESCRS 2009 Winter Refractive Meeting, Basics Optics Course, Rome
40. Infectious Keratitis after Refractive Surgery: Current Trends. Cleveland Clinic Innovations in Ophthalmology Course, Key Largo FL
41. Corneal Biomechanics and Implications for Refractive Surgery. Cleveland Clinic Innovations in Ophthalmology Course, Key Largo FL
42. Corneal Topographic Evaluation: Efficacy, Reproducibility, and Inter-observer Agreement. Cleveland Clinic Innovations in Ophthalmology Course, Key Largo FL
43. Refractive Surgical Screening: The Ectasia Risk Scoring System. Cleveland Clinic Innovations in Ophthalmology Course, Key Largo FL
44. Infectious Keratitis after Refractive Surgery: Where are we in 2009? Vanderbilt Eye Institute Comprehensive Ophthalmology: Pearls XII Course, Nashville TN
45. Advanced Topographic Evaluation of the Refractive Surgical Patient. Vanderbilt Eye Institute Comprehensive Ophthalmology: Pearls XII Course, Nashville TN
46. Corneal Ectasia after LASIK: Diagnosis & Management. U. of Florida Refractive Pearls for practice, 2010
47. Infectious Keratitis after Refractive Surgery. U. of Florida Refractive Pearls for practice, 2010

48. LASIK Flap Complications: Recognition & Management. U. of Florida Refractive Pearls for practice, 2010
49. Advanced Topographic Evaluation of the Refractive Surgical Patient. U. of Florida Refractive Pearls for practice, 2010
50. Astigmatism Management in Cataract & Refractive Surgery. Egyptian Society of Cataract & Refractive Surgery Annual Meeting, Cairo Egypt, 2010
51. Refractive Surgical Decision Making: When PRK and When LASIK? Egyptian Society of Cataract & Refractive Surgery Annual Meeting, Cairo Egypt, 2010
52. LASIK Flap Complications: Recognition & Management. Egyptian Society of Cataract & Refractive Surgery Annual Meeting, Cairo Egypt, 2010
53. Advanced Topographic Evaluation of the Refractive Surgical Patient. Egyptian Society of Cataract & Refractive Surgery Annual Meeting, Cairo Egypt, 2010
54. Corneal Ectasia after LASIK: Diagnosis & Management. Egyptian Society of Cataract & Refractive Surgery Annual Meeting, Cairo Egypt, 2010
55. Subjective Topographic Pattern Correlations Between Scanning Slit-Beam Topography and Scheimpflug Images. ASCRS Annual Meeting, Boston, MA, April 2010 (**2010 ASCRS Foundation Binkhorst Young Ophthalmologist Award Paper**)
56. Ectasia. World Ophthalmology Congress Refractive Surgery Subspecialty Day, Berlin, Germany, June 2010
57. Ectasia: Diagnosis & Treatment. World Ophthalmology Congress, Berlin, Germany, June 2010
58. Corneal Ectasia after LASIK: Diagnosis & Management. Colombian Society of Ophthalmology International Ophthalmology Congress, Bogota Colombia, August 2010
59. Advanced Topographic Evaluation for the Refractive Surgical Patient. Colombian Society of Ophthalmology International Ophthalmology Congress, Bogota Colombia, August 2010
60. Management of Malpositioned Intraocular Lenses. Colombian Society of Ophthalmology International Ophthalmology Congress, Bogota Colombia, August 2010
61. Astigmatism Management in Cataract & Refractive Surgery. Colombian Society of Ophthalmology International Ophthalmology Congress, Bogota Colombia, August 2010
62. Surprises and Solutions After Refractive Surgery. Atlantic Eye Symposium, Halifax Nova Scotia, September 2010
63. PRK vs. LASIK: How to Choose. Atlantic Eye Symposium, Halifax Nova Scotia, September 2010
64. Corneal Ectasia: Pathophysiology and Risk Factors. Atlantic Eye Symposium, Halifax Nova Scotia, September 2010
65. Status of Collagen Cross-linking in the United States: Studies vs. Approval Process. AAO Refractive Surgery Subspecialty Day Meeting, Chicago, IL October 2010
66. Flap Thickness in Eyes with Post-LASIK Ectasia. OSN New York 2010. November 2010
67. CXL for Post-LASIK Ectasia. 6th International Congress of Collagen Cross Linking, Milan Italy, January 2011
68. Corneal Ectasia Post-Refractive Surgery: Diagnosis & Treatment. Bascom Palmer Eye Institute Cataract & Refractive Surgery Congress, Miami, FL, February 2011
69. Prevention and Management of LASIK Flap Complications. Bascom Palmer Eye Institute Cataract & Refractive Surgery Congress, Miami, FL, February 2011
70. Topographic Evaluation and Surgical Screening of the Refractive Surgery Patient. Bascom Palmer Eye Institute Cataract & Refractive Surgery Congress, Miami, FL, February 2011
71. Case Studies in Corneal Topography. ASCRS Annual Meeting, San Diego, CA, March 2011

72. Astigmatism Management in the Post-Refractive Surgery Cornea. ASCRS Annual Meeting, San Diego, CA, March 2011
73. Collagen Cross Linking for Ectasia after LASIK. European Society of Ophthalmology (SOE) Biennial Meeting, Geneva Switzerland, June 2011
74. IOL Fixation Options When the Capsule is Compromised. Canadian Ophthalmology Society (COS) Annual meeting, Vancouver. BC, June 2011
75. IOL Cutting Instruments. Canadian Ophthalmology Society (COS) Annual meeting, Vancouver. BC, June 2011
76. Advanced Topographic Analysis for Cataract and refractive Surgeons. Canadian Ophthalmology Society (COS) Annual meeting, Vancouver. BC, June 2011
77. Astigmatism Management after Refractive Surgery. Pan American Society of Ophthalmology Annual Meeting, Buenos Aires, Argentina, July 2011
78. The Verisyse Phakic IOL. Pan American Society of Ophthalmology Annual Meeting, Buenos Aires, Argentina, July 2011
79. Risk Factors for Ectasia: Are thin Cornea at Increased Risk for Post-LASIK Ectasia? ISRS Symposium at the European Society of Cataract & Refractive Surgery, Vienna Austria, September 2011
80. Changes in Ocular Response Analysis (ORA) after Cross Linking for Keratoconus and Ectasia after LASIK. Eurokeratoconus Annual meeting, Bordeaux, France, September 2011
81. Keratoconus & Ectasia: Screening & Procedure Selection. Given during AAO Course #420: Modern Trends in Diagnosis and Management. AAO Annual Meeting, Orlando, FL, October 2011
82. Battle of the Bulge: We Can Predict Ectasia. ISRS/AAO Refractive Surgery Subspecialty Day Meeting, Orlando, FL, October 2011
83. Update on Cross Linking for Keratoconus and Ectasia. OSN New York 2011, November 2011
84. Update on Cross Linking for Keratoconus and Ectasia. Hawaiian Eye 2012, Maui, January 2012
85. Riboflavin Crosslinking for Infectious Keratitis. ASCRS Cornea Day Annual Meeting, Chicago, IL, March 2012
86. The Role of the Ectasia Risk Score System. ASCRS Annual Meeting, Chicago, IL, April 2012
87. Predicting Ectasia Risk. ASCRS Annual Meeting, Chicago, IL, April 2012
88. The Taming of the Tumultuous Toric. ASCRS Annual Meeting, Chicago, IL, April 2012
89. Treatment Algorithm for the Dissatisfied Premium IOL Patient. Refractive.online & SICCSO International Congress, Rome, Italy, June 2012
90. Topographic Evaluation. ISRS/AAO Symposium 53: Introduction to Refractive Surgery for Residents, AAO Annual Meeting, Chicago, IL
91. Surgical Management of Astigmatism. 3rd ISRS /Magrabi Meeting & Saudi Ophthalmological Society, December 1-3, 2012, Riyadh, KSA
92. Managing Patients Dissatisfied with Multifocal IOLs. 3rd ISRS /Magrabi Meeting & Saudi Ophthalmological Society, December 1-3, 2012, Riyadh, KSA
93. IOL selection & Implantation; My 5 Best Tips. 3rd ISRS /Magrabi Meeting & Saudi Ophthalmological Society, December 1-3, 2012, Riyadh, KSA

94. LASIK Interface Disorders: Diagnosis and Management. 3rd ISRS /Magrabi Meeting & Saudi Ophthalmological Society, December 1-3, 2012, Riyadh, KSA
95. Refractive Surgery Screening. 3rd ISRS /Magrabi Meeting & Saudi Ophthalmological Society, December 1-3, 2012, Riyadh, KSA
96. Topography, Tomography & Aberrometry for the Refractive Surgeon. 3rd ISRS /Magrabi Meeting & Saudi Ophthalmological Society, December 1-3, 2012, Riyadh, KSA
97. Finding a Consensus on Reporting CXL Outcomes: Epithelial Mapping. 8th International Congress of Corneal Cross-Linking, December 7-8 2012, Geneva, Switzerland
98. Corneal Topography and the ERSS score, An Update. 8th International Congress of Corneal Cross-Linking, December 7-8 2012, Geneva, Switzerland
99. Collagen Cross-Linking: Current Status. Hawaiian Eye 2013, Hawaii's Big Island, HI, January 2013
100. LASIK Interface Disorders: Etiology and Management. Hawaiian Eye 2013, Hawaii's Big Island, HI, January 2013
101. Utilizing the ERSS for Refractive Surgical Screening. Lo Mejor en Cornea, March 21-23, 2013, Mexico City, DF
102. Choosing the Appropriate IOL after Corneal Refractive Surgery. Lo Mejor en Cornea, March 21-23, 2013, Mexico City, DF
103. Managing Corneal Ectasia after LASIK. Lo Mejor en Cornea, March 21-23, 2013, Mexico City, DF
104. Fundamentals of Corneal Topography & Tomography Evaluation. Lo Mejor en Cornea, March 21-23, 2013, Mexico City, DF
105. Corneal Topography to Detect Biomechanical Changes. Predicting, Measuring and Treating Changes in Corneal Biomechanics Course. ARVO, Seattle, WA, 2013
106. Correlation of corneal imaging in keratoconus suspect diagnosis. Athens/ISRS Refractive Surgery Course, Athens Greece, September 2013
107. Utilizing the ERSS for refractive Surgical Screening. Athens/ISRS Refractive Surgery Course, Athens Greece, September 2013
108. Toric, Multifocal, and Accommodating IOLs. ISRS/AAO Symposium 02: Introduction to Refractive Surgery for Residents, AAO Annual Meeting, New Orleans, LA, November 2013
109. Future Trends in Refractive Surgery. University of Sao Paolo 16th Annual Ophthalmology Congress, Sao Paolo, Brazil, November 2013
110. Utilizing the ERSS for Refractive Surgical Screening. University of Sao Paolo 16th Annual Ophthalmology Congress, Sao Paolo, Brazil, November 2013
111. Keratoconus; What is Progression? 9th International Congress of Corneal Cross-Linking, Dublin, Ireland, December 2013
112. Corneal Topography and the ERSS. 9th International Congress of Corneal Cross-Linking, Dublin, Ireland, December 2013
113. The Ectasia Risk Score System. Wills Eye Hospital, Philadelphia, PA, December 11, 2013
114. Corneal Topography: Wills Eye Hospital, Philadelphia, PA, December 11, 2013

115. Refractive Surgery: Patient Evaluation. Wills Eye Hospital, Philadelphia, PA, December 11, 2013
116. LASIK interface disorders. Bascom Palmer Eye Institute Cataract and Refractive Surgery Congress 2014. Miami, FL, February 21, 2014
117. LASIK vs. PRK - when to choose which procedure. Bascom Palmer Eye Institute Cataract and Refractive Surgery Congress 2014. Miami, FL, February 21, 2014
118. Corneal topography & tomography for refractive and cataract surgeons. Bascom Palmer Eye Institute Cataract and Refractive Surgery Congress 2014. Miami, FL, February 21, 2014
119. Preoperative evaluation for LASIK & PRK. Bascom Palmer Eye Institute Cataract and Refractive Surgery Congress 2014. Miami, FL, February 21, 2014
120. Choosing the appropriate IOL after corneal refractive surgery New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
121. Managing Patients Dissatisfied with Multifocal IOLs. New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
122. Keys to success with New Technology IOLS. New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
123. LASIK Interface Disorders: Etiology and Management. New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
124. The Role of Ectasia Risk Score System. New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
125. Fundamentals of Corneal Topography and Tomography Evaluation. New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
126. Surgical Management of Astigmatism. New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
127. Collagen cross-linking complications and their management. New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
128. Managing Cataract Surgery Complications. New Orleans Academy of Ophthalmology, New Orleans LA, March 2014
129. CXL for Infectious Keratitis (PACK-CXL). ISRS Tokyo Summit, April 1 2014
130. LASIK, Ectasia, and Phakic IOLs. ISRS Tokyo Summit, April 1 2014
131. Advanced Tomography & Topography Evaluation, World Ophthalmology Congress, Tokyo, Japan, April 2014
132. Corneal topography to measure the therapeutic success of CXL. ARVO Annual Meeting Education Course, Orlando, FL, May 3, 2014
133. LASIK interface disorders: Etiology and management. 20th Annual White Nights International Ophthalmology Congress, St. Petersburg, Russia, May 26, 2014
134. Choosing the appropriate IOL after corneal refractive surgery. 20th Annual White Nights International Ophthalmology Congress, St. Petersburg, Russia, May 26, 2014
135. Management of Corneal Ectasias. 20th Annual White Nights International Ophthalmology Congress, St.

Petersburg, Russia, May 27, 2014

136. Managing patients dissatisfied with multifocal IOLs. 20th Annual White Nights International Ophthalmology Congress, St. Petersburg, Russia, May 27, 2014
137. Managing Presbyopia-Correcting IOL Dissatisfaction. 20th Annual Cornea & Refractive Surgery International Course, Riviera Nayarit, Mexico, September 10-12, 2014
138. Ectasia Management. 20th Annual Cornea & Refractive Surgery International Course, Riviera Nayarit, Mexico, September 10-12, 2014
139. LASIK Interface Disorders. 20th Annual Cornea & Refractive Surgery International Course, Riviera Nayarit, Mexico, September 10-12, 2014
140. CXL Treatment Modifications: Fluence, Irradiation Profiles, and The Role of the Epithelium. ESCRS Annual Meeting, September 13-17, 2014, London, UK
141. Topographic and Tomography Evaluation. ISRS/AAO Symposium 02: Introduction to Refractive Surgery for Residents. AAO Annual Meeting. Chicago, IL October 2014
142. Interactive Corneal Refractive Surgery Consultations. ISRS/AAO Annual Meeting. Chicago, IL October 2014
143. Laser Vision Correction Enhancements. ISRS/AAO Annual Meeting. Chicago, IL October 2014
144. Flap & Interface Complications. AAO Annual Meeting. Chicago, IL October 2014
145. Phakic IOL Exchange. ISRS/AAO Annual Meeting. Chicago, IL October 2014 Topography and Tomography evaluation for Cataract and Refractive Surgeons. Chilean Congress of Ophthalmology, Vina del Mar, Chile, November 2014
146. Managing Patient Dissatisfaction after Presbyopia-Correcting IOL Implantation. SUNY Downstate Ophthalmology Department, Brooklyn, NY, November 2014
147. Case Studies in Refractive Surgery. SUNY Downstate Ophthalmology Department, Brooklyn, NY, November 2014
148. The Role of Ectasia Risk Score System in Refractive Surgery Screening. Chilean Congress of Ophthalmology, Vina del Mar, Chile, November 2014
149. CXL for infectious Keratitis. Chilean Congress of Ophthalmology, Vina del Mar, Chile, November 2014
150. Future Trends in Refractive Surgery. Chilean Congress of Ophthalmology, Vina del Mar, Chile, November 2014
151. LASIK Interface Disorders: Etiology and Management. Chilean Congress of Ophthalmology, Vina del Mar, Chile, November 2014
152. CXL: Complications and their management. Chilean Congress of Ophthalmology, Vina del Mar, Chile, November 2014
153. CXL: Indications and Outcomes. Chilean Congress of Ophthalmology, Vina del Mar, Chile, November 2014
154. Corneal Cross-Linking: Current Status. Nashville Academy of Ophthalmology Meeting, Nashville, TN, January 2015
155. IOL Repositioning & Exchange Techniques. Les Entretiens Ophtalmologiques de l'Université de

- Montréal 2015 (EOUM), Montreal, Quebec. May 2015
156. Therapeutic Refractive Surgery. Les Entretiens Ophtalmologiques de l'Université de Montréal 2015 (EOUM), Montreal, Quebec. May 2015
 157. Advanced Topography and Tomography Evaluation. Les Entretiens Ophtalmologiques de l'Université de Montréal 2015 (EOUM), Montreal, Quebec. May 2015
 158. Measuring the Success of Corneal Cross-Linking. Les Entretiens Ophtalmologiques de l'Université de Montréal 2015 (EOUM), Montreal, Quebec. May 2015
 159. The Fragility of Knowledge. Drouilhet Visiting Professor Lecture, UT Houston Department of Ophthalmology, Houston, TX, June 2015
 160. The Fragility of Knowledge. Congresso Brasileiro Oftamologia, Florianopolis, Brazil, September 2015
 161. Measuring Treatment Success after Corneal Cross Linking (CXL). Congresso Brasileiro Oftamologia, Florianopolis, Brazil, September 2015
 162. Therapeutic Refractive Surgery. Congresso Brasileiro Oftamologia, Florianopolis, Brazil, September 2015
 163. LASIK vs. PRK: When to Choose Each Procedure. Congresso Brasileiro Oftamologia, Florianopolis, Brazil, September 2015
 164. Post Refractive Surgery Corneal Ectasia. 6th Annual Eucornea Congress, Barcelona Spain, September 2015
 165. CXL Treatment Modifications: Accelerated protocols and Controversies in Measuring Therapeutic Effects after CXL. ESCRS Annual Meeting, September 5-9, 2014, Barcelona, SP
 166. Corneal Collagen Cross-Linking. Nebraska Academy of Eye Physicians and Surgeons Fall Scientific Meeting, October 2, 2015, Omaha, NE
 167. Corneal Topography & Tomography for the Ectatic Cornea. Nebraska Academy of Eye Physicians and Surgeons Fall Scientific Meeting, October 2, 2015, Omaha, NE
 168. Risk Score System for Keratoconus Screening. Apectasias Inaugural Meeting on Corneal Ectasia. Mexico City (Coyoacán), DF, October 2015
 169. ORA in Keratoconus. Apectasias Inaugural Meeting on Corneal Ectasia. Mexico City (Coyoacán), DF, October 2015
 170. Crosslinking Complications. Apectasias Inaugural Meeting on Corneal Ectasia. Mexico City (Coyoacán), DF, October 2015
 171. Topographic and Tomography Evaluation. ISRS/AAO Symposium 03: Introduction to Refractive Surgery for Residents. AAO Annual Meeting. Las Vegas, NV, November, 2015
 172. Advanced Technology IOL: Patient Selection. ISRS/AAO Symposium 03: Introduction to Refractive Surgery for Residents. AAO Annual Meeting. Las Vegas, NV, November, 2015
 173. How well are we doing at measuring topographic changes after CXL? 11th International Congress Corneal Cross-Linking, Boston, MA, December 5, 2015
 174. Optimizing IOL Surgery Using Advanced Optics. SUNY Downstate Medical Center Current Concepts in Ophthalmology, Atlantic City, NJ, January 9, 2016

175. Refractive Surgery Complications. SUNY Downstate Medical Center Current Concepts in Ophthalmology, Atlantic City, NJ, January 9, 2016
176. Publishing a Scientific Paper: Tables, Graphs, and Figures. World Ophthalmology Congress, Guadalajara, MX, February 8, 2016
177. Publishing a Scientific Paper: Choosing the Correct Journal. World Ophthalmology Congress, Guadalajara, MX, February 8, 2016
178. LASIK Interface Disorders: Etiology & Management. Aspen Corneal Society Annual Meeting, Aspen CO, February 14, 2016
179. Role of Tomography in Keratoconus Evaluation: Fact & Fancy. Aspen Corneal Society Annual Meeting, Aspen CO, February 14, 2016
180. Collagen Crosslinking: What's Out There and What's Approved Where. Course on Advanced Cornea Surgery (CoACS). Emory University School of Medicine. Atlanta, GA, March 5, 2016
181. Cross-Linking Techniques: Step-by-Step. Course on Advanced Cornea Surgery (CoACS). Emory University School of Medicine. Atlanta, GA, March 5, 2016
182. The fragility of Knowledge. New England Ophthalmological Society Meeting, Boston MA, March 11, 2016
183. Preventing Ectasia through Better Screening. New England Ophthalmological Society Meeting, Boston MA, March 11, 2016
184. Collagen Cross-linking to Treat and Prevent Ectasia. New England Ophthalmological Society Meeting, Boston MA, March 11, 2016
185. How to Avoid Ectasia: Refractive Surgery Screening Advances. Duke Eye Center Controversies in Cornea and Cataract Surgery, Durham, NC, April 23, 2016
186. LASIK Interface Disorders: Etiology & Management. Duke Eye Center Controversies in Cornea and Cataract Surgery, Durham, NC, April 23, 2016
187. Therapeutic Refractive Surgery. Duke Eye Center Controversies in Cornea and Cataract Surgery, Durham, NC, April 23, 2016
188. Post-LASIK Ectasia. ASCRS Cornea Day. ASCRS Cornea Day Annual Meeting, New Orleans, LA May 6, 2016
189. Grading/Scoring Ectasia Risk. ASCRS Annual Meeting, New Orleans, LA, May 9, 2016
190. Flap Amputation for Therapeutic Refractive Surgery Cases. ASCRS Annual Meeting, New Orleans, LA, May 9, 2016
191. How I see the ectasia risk factors. Brazilian Society of Cataract and Refractive Surgery XIV International Congress of Cataract and Refractive Surgery, São Paulo, Brazil, June 2, 2016
192. Refractive cataract surgery. Brazilian Society of Cataract and Refractive Surgery XIV International Congress of Cataract and Refractive Surgery, São Paulo, Brazil, June 2, 2016
193. Weighting ectasia risk factors. Brazilian Society of Cataract and Refractive Surgery XIV International Congress of Cataract and Refractive Surgery, São Paulo, Brazil, June 3, 2016
194. IOL repositioning and exchange techniques. Brazilian Society of Cataract and Refractive Surgery XIV International Congress of Cataract and Refractive Surgery, São Paulo, Brazil, June 4, 2016

195. Refractive Cataract Surgery. USC Roski Eye Institute 41st Anniversary Symposium, Los Angeles CA, June 17, 2016
196. The Fragility of Knowledge. USC Roski Eye Institute 41st Anniversary Symposium, Los Angeles CA, June 17, 2016
197. Screening for Ectasia Risk. Annual Conference of Indian Intraocular Implant & Refractive Society, July 2-3, 2016, Chennai, India
198. IOL Removal – Do's & Dont's. Annual Conference of Indian Intraocular Implant & Refractive Society, July 2-3, 2016, Chennai, India
199. Refractive Surgery Case Evaluations. Los Angeles County Optometric Society LACOS Meeting, July 10, 2016, Los Angeles, CA
200. Evaluation & Management of Toric IOL Outcomes. European Society of Cataract & Refractive Surgery Annual Meeting, September 10, 2016, Copenhagen, Denmark
201. New Indications for Corneal Cross-Linking. European Society of Cataract & Refractive Surgery Annual Meeting, September 11, 2016, Copenhagen, Denmark
202. Red flags in topography and tomography. ISRS Symposium at the European Society of Cataract & Refractive Surgery Annual Meeting, September 13, 2016, Copenhagen, Denmark

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 42. Rocha KM, **Randleman JB**, Stulting RD. Fourier Domain OCT Analysis of Tissue Remodeling in Corneal Collagen Crosslinking. ASCRS Annual Meeting, San Diego, CA, March 2011
 43. Yeu E, Reeves SW, **Randleman JB**. Residency Surgical Training Experience in Advanced Cataract Surgery Techniques, Premium IOLs, and Corneal Refractive Surgery: Survey of Residents, Fellows, and Young Physicians. ASCRS Annual Meeting, San Diego, CA, March 2011
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 47. Shah RD, **Randleman, JB**. Clinical Outcomes and Predictors of Success in Management of Acanthamoeba Keratitis at Emory University. ASCRS Annual Meeting, Chicago, IL, April 2012
 48. Akhtar, J, **Randleman, JB**. Comparison of Scheimpflug Corneal Topographer (Standard) and Scheimpflug Corneal Topographer HR Indices Before and After LASIK. ASCRS Annual Meeting, Chicago, IL, April 2012
 49. Perez-Straziota CE, **Randleman, JB**. Early Regional Changes Corneal Stromal Thickness after Collagen Cross Linking. ASCRS Annual Meeting, Chicago, IL, April 2012 (**Best Paper of Session**)
 50. Khandelwal, SS, **Randleman, JB**. Change in Scheimpflug Indices Following Corneal Collagen Cross Linking for Keratoconus and Ectasia after LASIK. ASCRS Annual Meeting, Chicago, IL, April 2012
 51. Nunnery EW, **Randleman JB** et al. Correlation Between Pentacam HR Belin/Ambrosio Display Score and Ocular Response Analyzer Keratoconus Match Score Index. ISRS/AAO Annual Meeting, Chicago, IL, November 2012
 52. Akhtar J, **Randleman JB** et al. Differences in Corneal Thickness, Keratometric, and Keratoconic Indices Between Scheimpflug Devices. ISRS/AAO Annual Meeting, Chicago, IL, November 2012
 53. Rocha KM, **Randleman JB** et al. Spectral Domain OCT Analysis of Corneal Architecture and Epithelial Thickness Profile in Corneal Collagen Crosslinking. ISRS/AAO Annual Meeting, Chicago, IL, November 2012
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55. Zaveri M, **Randleman, JB**. Wavefront-Optimized PRK After LASIK. ASCRS Annual Meeting, San Francisco, CA, April 2013
56. Perez-Straziota CE, **Randleman, JB**. Flap Thickness Architecture Comparison of Femtosecond and Microkeratome Flaps. ASCRS Annual Meeting, San Francisco, CA, April 2013
57. Weisman HM, **Randleman JB**. RP30037075 - Evaluating the Correlation and Agreement Between 2 Refractive Surgery Screening Technologies. ISRS/AAO Annual Meeting, New Orleans, LA, November 2013
58. Perez-Straziota CE, **Randleman, JB**. Comparison of Keratometry Measurements with Scheimpflug, Placido Disc, and Manual Keratometry in Patients with Normal and Suspicious Topography. ASCRS Annual Meeting, Boston MA April 2014 (**Best paper of Session**)
59. Weissman HM, **Randleman JB**. Correlation of Scheimpflug and Ocular Coherence Tomography Relational Thickness Metrics in Refractive Surgery Patients. ASCRS Annual Meeting, Boston MA April 2014
60. Santhiago MR, David Smadja D, Mello GH, **Randleman JB**. Role of Percentage of Tissue Altered as Risk Factor for Ectasia After LASIK in Eyes with Normal Preoperative Topography. ASCRS Annual Meeting, Boston MA April 2014 (**Best paper of Session**)
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65. Nunnery EW, Weissman HM, **Randleman JB**. PO217 - Evaluation of an OCT-Based Keratoconus Risk Scoring System. AAO Annual Meeting, Chicago, IL October 2014
66. Santhiago MR, David Smadja D, Mello GH, **Randleman JB**. PO210 - Role of Percentage of Tissue Altered as a Risk Factor for Ectasia after LASIK. AAO Annual Meeting, Chicago, IL October 2014
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69. Welling J, **Randleman JB**. Wavefront-Optimized PRK After LASIK Compared with Primary PRK. ASCRS Annual Meeting, San Diego, CA, April 2015
70. Perez-Straziota CE, **Randleman JB**. Comparison of Central and Peripheral Corneal Thickness Measurements with Scanning-Slit, Scheimpflug, and Fourier-Domain Ocular Coherence Tomography. ASCRS Annual Meeting, San Diego, CA, April 2015
71. Kim J, **Randleman JB**. Accuracy of IOL Calculations in Post Corneal Refractive–Surgery Eyes. ASCRS

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74. Perez-Straziota CE, Lockwood JC, **Randleman JB**. Comparison of Toric IOL Outcomes and Calculator Recommendations in Patients with Toric IOL Implantation After Manual or Femtosecond-Assisted Cataract Surgery. ASCRS Annual Meeting, New Orleans, LA, May 2016 (**Best paper of Session**)
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