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- Allergan Advisor, Speakers Bureau
- Eyenovia Advisor, Research Grant
- Tarsus Advisor
- Sight Science Advisor
 Toncon Advisor
- Topcon Advisor
 Visus Advisor
- Lumenis Advisor
- Avellino Labs Advisor
- B&L- Advisor
- Alcon- Advisor

The Future of Cataract Management by Optometry

• Know the Lens options

O.D.'s Guide to

Cataracts

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•Omni Eye Specialists

- Know the Patient
- Match Options to Patient
 - Financial
 - Medical
 - Optical

Cataract Management by Optometry in the Year 2022

- Earlier Referrals
- Loftier Expectations- Harder to Manage?
- More Active Role In Pre-Operative Counseling
- More active Role In Choosing Procedure
 - More Important Than Ever In Assuring Positive Outcomes
 - Changing Post-Op Role
 - Evolving Co-management

The Future of Cataract Management by Optometry

- Understand the fee structure of each modality
- Develop a personal fee structure
- Is there still a 20% rule ? In fact the majority of the examination and patient guidance is your responsibility and should be compensated
- There is very little difference in time and expertise to implant a SV, toric, or multifocal. In fact the majority of time spent is pre and Post surgery





Not All Cataracts Are Created Equal

- VA is no longer the only criteria for recommending surgery
 - Glare
 - Contrast Sensitivity
 - Night Vision Difficulties
 - 20/Unhappy!

Not All Cataract Surgeries Are Created Equal

- What Does The Patient want (expect)?
 - Spectacle independence?
 - No specs for sports?
 - No reading glasses?No responsibility?

Not All Cataract Surgeries Are Created Equal

- What Do The Doctors Want (Expect)?

 Surgeon vs Referring Doctor
- Setting Realistic Expectations Is The Key!!!!!

Cataract Surgery - Choosing The "Right One"

- So Many Choices So Little Time
 - Clear Cornea vs Laser assisted
 - Astigmatic Keratotomy vs Toric IOL
 - Single Vision vs Multifocal
 - Multifocal vs Accomodating IOL vs Trifocal
 - What About Monovision????
 - Aspheric IOLs What's up with those?
 - And What Is Extended Depth of Focus!!!???***

Why Use A Femtosecond Laser ?

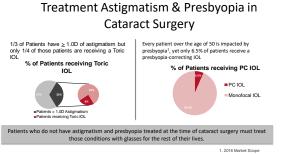
- Precise Incision Control
- Managing Astigmatism
- More Precise Capsulorhexis
- More Predictable refractive outcome
- But Is It worth the Extra Cost????

What About The ORA?

- Intraoperative aberrometry
- Enhances precision of IOL placement
- Increases likelihood of plano result
- Is there an upcharge?

Managing Astigmatism

- Limbal Relaxing Incision
- · Astigmatic keratotomy (laser guided)
- Toric IOL
- The choice depends upon amount of pre-operative astigmatism
 - (And the amount of money the patient chooses to spend!!!)



How Much Cylinder Can we Actually Correct?

Lens Model	ZCT150	ZCT225	ZCT300	ZCT400	ZCT450	ZCT525	ZCT600
Cylinder Powers	1.50 D	2.25 D	3.00 D	4.00 D	4.50D	5.25D	6.00D
Corneal Plane*	1.03 D	1.54 D	2.06 D	2.74 D	3.08D	3.60D	4.11D
Corneal Astigmatism Correction Range (PreK Cyl + SIA)	0.75–1.50D	1.50-2.00 D	2.00–2.75 D	2.75–3.62 D	3.00-3.50D	3.50-4.00D	4.00-4.75D

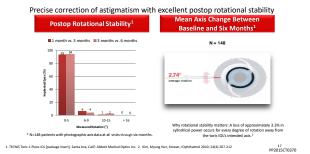
Astigmatism and Cataract Surgery



- Approximately 37.7% of the patient population has greater than 1D of astigmatism¹
- Toric IOLs represent a potential market of approximately 268K procedures
 - 7% market penetration forecasted for 2014¹
 Fastest growing segment of the premium IOL market the last several years²

sive Report on Global IOL Market. 2. Market Scope, 2014 Global IOL Report. Opht

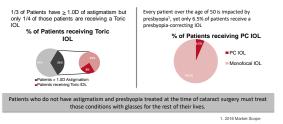
rket Scope, 2013 Co





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Treatment Astigmatism & Presbyopia in Cataract Surgery



 Monofocal IOLs Monofocal Toric IOLs 	Accommodating IOLs Accommodating Toric IOLs	Multifocal IOLsMultifocal Toric IOLs
The ED	A Approves a different c	less of lens:
The PD	The first and only	Idss of lefts.
	· · · · · · · · · · · · · · · · · · ·	
Ext	ended Depth of Focus	
Ext	Presbyopia-Correcting I	· · · ·

Extended Depth of Focus

The TECNIS Symfony[®] IOL has unique optics, creating a different visual experience



- focus of the eye¹
 The echelette is the relief or profile of the lens (height differential) within each ring
- The echelette is the relief of profile of the lens (height diliefential) within each ring
 The height, spacing, and profile of the echelettes to create a diffractive pattern for an elongated
- focus

1. TECNIS' Symforty' IOL DFU

Extended Depth of Focus IOL

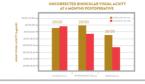


The impact of chromatic aberration on image quality



Excellent Vision at All Distances¹

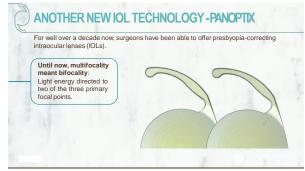
Monocular Distance Corrected vision with TECNIS Symfony® IOL improved 2.4 lines for intermediate vision and 2.2 lines for near vision compared to the monofocal control.¹



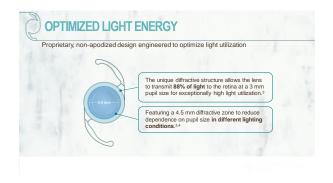
1. TECN St Symfonyt IOL DFU

Johmon-Johmon vision











So What Do We Know About Panoptix Another very viable option

Three focal points (Plano, +1.67, +2.50)

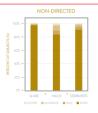
Technically a quadrafocal

Probably works best bilaterally

Enhanced Near Vision

Happier Earlier?

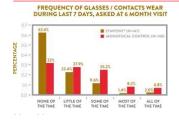
Low Incidence of Halo and Glare



Less than 3% of patients spontaneously reported incidence of severe night vision symptoms

ay include a perception of halos, glare, or starbursts around lights phttime conditions. The experience of these phenomena will be me or vary bothersome in some people, particularly in low-ion conditions. On rare occasions, these visual effects may be or enough that the patient may request removal of the IOI

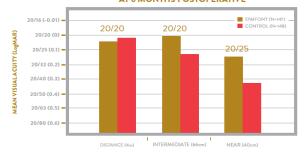
Low Spectacle Wear



85% of TECNIS Symfony® IOL patients wore glasses none or a little bit of the time

1. TECNIS Symforry® IOL DFU

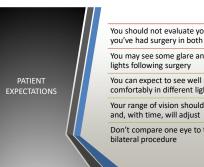
UNCORRECTED BINOCULAR VISUAL ACUITY **AT 6 MONTHS POSTOPERATIVE**



Expectation Setting Conversations

- There is no perfect lens
- Distance to computer vision, ability to read a menu
- · Expect to need reading glasses for small print
- If they don't use reading glasses it's a bonu · They will likely need prescription RX for some time of the day, for some specific tasks
- · Day one expect slightly blurry vision, Vision will improve once second eye is done
- You may notice "starbursts" around light sources more noticeable at night





You should not evaluate your vision until you've had surgery in both eyes

You may see some glare and halos around

You can expect to see well and read comfortably in different lighting conditions

Your range of vision should be excellent

Don't compare one eye to the other- it is a

Preoperative considerations

- Patient selection
 - Manage expectations
 - Halos/starbursts
 - Dependence on spectacles
 - "No perfect IOL"
 - Under-promise and over-deliver!

So How Can The Referring Doctors Maximize Success For Their Patients?

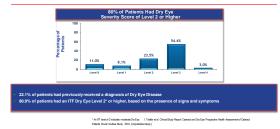
Our Role in Optimizing Outcomes

When needed, pre-treat the ocular surface

- Why prepare the ocular surface? ✓ Better topography images/Improved Biometry (better K's) ✓ Potential for reduced risk of infection/less corneal staining
- ✓More comfortable patient ✓ Faster healing

✓Outcomes

Dry Eye Prevalence in Patients Scheduled for Cataract Surgery¹

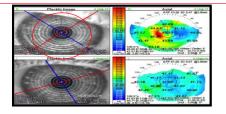


The Ocular Surface

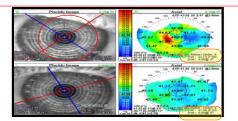
Objective Testing Can Be Insightful

More variability in avg K and anterior corneal astigmatism was observed in the hyperosmolar group, with significant resultant differences in IOL power calculations*

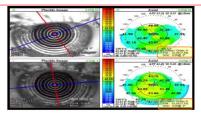
*Epitropoulos AT, et. al. J Cataract Refract Surg. 2015 Aug;41(8):1672-7 Osmolarity > 322 altered post-op refraction result by .50-.62D Irregularly Shaped Or Smudgy Placido Disk Is Abnormal



Take A Closer Look If Average K Values Are Different



Post-Dry Eye Treatment: K Values Are Much More Similar



How do you communicate to patients the value of a premium IOL?

When speaking to patients what are the indicators you look for that give you confidence the patient is a good candidate?

What are the most common challenges you face with patient conversion and how do you address?

Post Operative Management in the Year 2023

- Dropless?
- 1 Bottle- 3 Drugs?
- Kinder, gentler steroids?
- Cheapest is Bestest?
- Do you see these "special patients" more often or less often?

What Is The Proper Co-Management Arrangement?

- Post Op visit Day 1 or Week 1?
- Co-Management Codes 66984-55
- Premium Services Upcharge -

Post-Op Considerations

- Similar to post-op care of "standard" cataract extraction — Topical antibiotic, NSAID and steroid
- 1 Day, 1 Week, 3 Weeks, 3 Months
- The Biggest Challenge Is Managing Patient Expectations
 - Reinforce Neuroadaptation
 - Reinforce need for Prescription Eyeglasses
 - Reinforce the Concept Of High Quality Vision
- What Is The Biggest Post-Operative Complication For These Patients?

Good Perioperative Management Relationships Are Built on Mutual Respect

Communicate up front/define roles and

expectations

own

MD

Explain Neuroadaptation

EDOF is a DIFFERENT kind of lens

- The brain needs to get used to the extended depth of focus optics Help patient understand how EDOF technology works
- Emphasize that the goal is to achieve QUALITY of vision
- Explain that there's always a trade-off
 "You may continue to need reading glasses on occasion, but you will have a greater range of vision"
- PREPARE the patient not to expect vision to be perfect at Day 1

. · Select surgeons whose philosophies match your Communicate your knowledge of the patient to the Visit the OR and schedule regular conversations Share all Pre-Op and Post-Op findings

More Discussion Questions

- · Why aren't these new technologies being embraced by OD's?
- · How do you handle the co-management fee and "upcharges"?
- What techniques can we employ to increase utilization of Premium IOLs?