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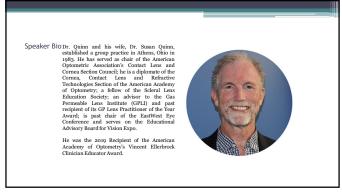
CE certificates will be delivered by email and sent to ARBO with OE tracker numbers

CE certificates will be emailed within 4 weeks

Ask questions using the zoom on-screen floating panel

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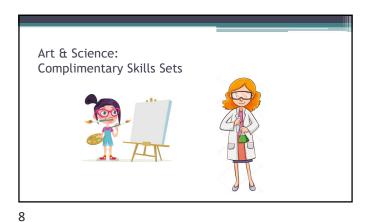
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Financial Disclosures

- Bausch + Lomb, Consultant
- · CooperVision, Research grant
- · Menicon, Research grant
- · Lentechs, Research grant
- GPLI, speaking honorarium

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• STAPLE Program, speaking honorarium



MULTIFOCAL vs MONOVISION

Let Science Speak

MULTIFOCAL vs MONOVISION:

MV vs Essential GP (Johnson, 2000)
75% preference for multifocal
MV vs Acuvue Bifocal (Situ et al, 2003)
63% preference for multifocal
MV vs Soflens MF (Richdale et al, 2006)
76% preference for multifocal
MV vs Air Optix Aqua MF (Woods et al, 2015)
51% preference for multifocal
37% preference for monovision
12% didn't like either

9 10



MV vs Acuvue Bifocal (Situ et al, 2003)
68% preference for multifocal
Issues with near vision in low light
MV vs Soflens MF (Richdale et al, 2006)
76% preference for multifocal
Issues with near vision in low light

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Restaurant Tools

- Magnifiers
- Light
- Apps





Setting the Stage for Success

- Know the science
- Multifocals out-perform monovision: 7/10x
- Know the strengths and weaknesses
 - Freedom and functionality
- Eg. Challenges at near in low light
- Prepare the pre-presbyopes

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Presbyopia is not a surprise!



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- Prepare the pre-presbyopes
- Fit them early

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Setting the Stage for Success

- Know the science
- Multifocals out-perform monovision: 7/10x
- Know the strengths and weaknesses
- Challenges at near in low light
- Prepare the pre-presbyopesFit them early
- Define success for your patient...

The New Rules of the Vision Game

- Multiple tools
- Magnification
- LightApps





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The New Rules of the Vision Game

- Multiple tools
 - Magnification
- Light
- Apps
- Goal: "Meet most of your needs most of the time"



Setting the Stage for Success

- · Know the science
- Multifocals out-perform monovision: 7/10x
- · Know the strengths and weaknesses

Key Phrases in MF CL Fitting

· "Fitting is a process"

• "My goal is to meet MOST of your visual needs MOST of the time"

- Challenges at near in low light
- · Prepare the pre-presbyopes
- Fit them early
- Define success for your patient...
- ...and yourself!

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What's the best way to assess MF performance?

- Woods, J, et al (2009)
 - Assessed both objective and subjective results/ratings
 - Objective testing (exam room)
 - Monovision "best performer" for high- and low-contrast near vision tests
 - Subjective ratings ("real world")
 - Monovision "lowest performer
 - Multifocal contact lenses "highest performer" in areas such as: Night driving, television, computer

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Key Phrases in MF CL Fitting

- "My goal is to meet MOST of your visual needs MOST of the time"
- "Fitting is a process"
- "The visual system needs time to adapt"

Adaptation to Multifocal Optics

- Sheedy et al, <u>Optom Vis Sci</u>, June 1993
 Noted significant improvement in complex task performance with concentric bifocal lenses
 No improvement with monovision

- No improvement with monovision
 Pappas et al, <u>Eye Contact Lens</u>, May 2009
 Assess performance of 88 subjects at dispensing and after 4 days of wear
 "Early assessment is relatively unrepresentative of performance later on during multifocal contact lens wear."
 Fernandes et al, <u>Optom Vis Sci</u>, Mar 2013
 Over 15 days, MF acuity at D and N improved
 MV acuity remained the same or worsened

Key Phrases in MF CL Fitting

- "My goal is to meet MOST of your visual needs MOST of the time"
- "Fitting is a process"
- "The visual system needs time to adapt"
- "Small changes can make a big difference"

Key Phrases in MF CL Fitting

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Key Phrases in MF CL Fitting

- "My goal is to meet MOST of your visual needs MOST of the time"
- "Fitting is a process"
- "The visual system needs time to adapt"
- "Small changes can make a big difference"
- "Light is your friend"
- "These lenses are designed to work together"



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Tips on Assessing Vision

Assessing Performance

- Scouting report
 - Open-ended questioning
- Real world environment
 - □ Lights up
 - Binocular conditions
- Real world tasks
- Loose lenses



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Check VAs

- Check binocular distance and near VAs
- Start with 20/40 letters
- Have the lights on
- Use real world tasks-phones/books
- If there are no complaints Stop

Ε FΡ T O Z -3 Tips on **Troubleshooting Vision**

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Troubleshooting Vision Complaints

- · Always start with distance over-refraction using loose lenses
- Be generous with plus, stingy with minus
- Follow the fitting guide
- If NO complaints...

...don't change anything!



B.A.- Secretary

• 47 yo, w, f

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- Newly fit by another provider with DD MF
 - Blur at distance and near, esp. distance
- Reports wore a monthly replacement MF successfully before developing GPC

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B.A.- Secretary

- Spectacle Rx
- +4.00 DS +1.75 add
- +3.50 DS +1.75 add
- CL Specs (DD MF center near asphere) +4.50 Low
- +4.50 High
- The Problem?
- B.M. dominance testing
- Sensory: OS
- Sighting: OS



Eye Dominance Testing

- Determine eye dominance
 - Sighting dominance
 - Sensory dominance





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Science says...

- Pointer J, J of Optom, (2012) 5, 52-55
- Method:
 - 72 Emmetropes
 - · Sighting method: hole in the card
 - · Sensory method: +1.50 blur test
- Results:
 - · Right eye dominance
 - · Sighting method: 71%
 - · Sensory method: 54%
 - · Laterality was in agreement only 50% of the time!

Science says...

- · Sighting Dominance
- $^{\scriptscriptstyle \rm o}$ Little to no relationship with success with monovision $^{\rm 1,2}$
- · Sensory Dominance

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- Evidence suggests may be a better measure 3,4
- Shor C, Landsman L, Erickson P, Ocular dominance and the interocular suppression of blur in monovision, Am J Optom Physiol Opt. 1987 Oct; 64(10):723-30.
- Erickson P, McGill EC. Role of visual acuity, stereoacuity, and ocular dominance in monovision patient success. Optom Vis Sci. 1992 Oct;69(10):761-4.
- Robboy MW, Cox IG, Erickson P, Effects of sighting and sensory dominance on monovsion hight and low contrast visual acuity, CLAO J. 1990 Oct-Dec; 16(4):299-301
- Collins MJ, Goode A, Interocular blur suppression and monovision, Acta Ophthalmol (Copenh) 1994: 72(3):376-80.

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M.M.- Physician

- 62 yo, w, m
- ${\scriptstyle \bullet}$ D/C GP MF due to dryness assoc. w/ RA
- Current Tx: Restasis, Omega 3, eyelid cleanser
- Interested in DD MF

M.M. - Physician

• Keratometry: OD: 43.25/43.75 @ 098 OS: 44.00/43.50@121

• Spectacle Rx: OD: -3.75 · 0.25 x 170 OS: -4.75 · 0.75 x 100

+2.50 add

• OD dominant (sighting;sensory?)

• DD Options:

• 1st attempt: MF OU → blur at near

• Push plus non-dominant OS: blur persists

• 2st attempt: MF OD, SV toric OS set for near → blur at intermediate

• 3st attempt: MF OD, SV toric OS set for intermediate → blur at near

• 4st attempt: MF OD blased near, SV toric OS for distance

• BINGO!

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Blur Tolerance Test

- \bullet Line up patient behind phoropter with best corrected \mbox{Rx}
- Both eyes open through the entire procedure
- Instruct patient to report when they first detect blur
- ${\scriptstyle \bullet}$ Introduce plus in +0.25 D steps until the patient reports blur
- Reset phoropter to best corrected Rx
- Repeat adding plus to the other eye until patient reports blur
- Calculate difference between findings for right and left eyes

Quinn TG, The Blur Tolerance Test, Contact Lens Spectrum, 34(3), March 2019 M.M. - Physician

• Keratometry: OD: 43.25/43.75 @ 098 OS: 44.00/43.50@121

• Spectacle Rx: OD: -3.75 - 0.25 x 170 OS: -4.75 - 0.75 x 100

• 2.50 add

• OD dominant (sighting;sensory?)

• DD Options:

• 1st attempt: MF OU → blur at near

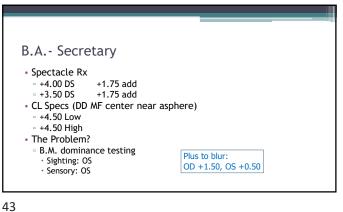
• Push plus non-dominant OS: blur persists

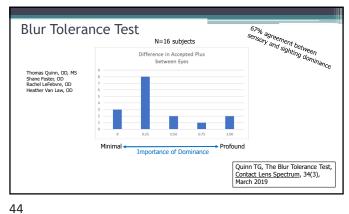
• 2nd attempt: MF OD, SV toric OS set for near → blur at intermediate

• 3rd attempt: MF OD, SV toric OS set for intermediate → blur at near

• 4^{sh} attempt: MF OD biased near, SV toric OS for distance

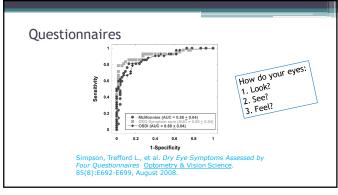
• BINGO!

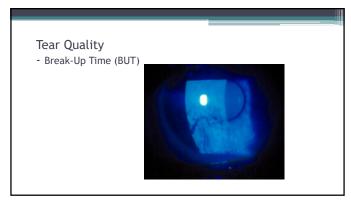


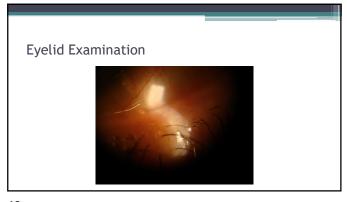






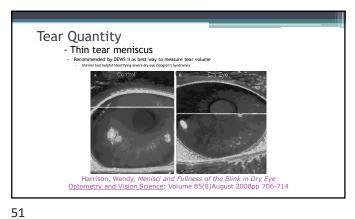








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Treating Tear Film Issues Quality IssueCleaningHeat Orals Fish oil doxycycline Quantity Issue Anti-inflammatory drops (ie. Restasis, Xidra, steroid, etc.) Punctal plugs Googles Both!

Lens Care and Comfort • End-of-Day Comfort Scores1:

• MPS (both groups)

• H2O2

• Daily Disposable 7.7 ± 1.7 7.7 ± 1.8 8.5 ± 1.7 * Statistically significant • Solution Effects on CL Surface2 MPS and H2O2-based solutions impact surface roughness 1. de la Jara, PL et al, Effect of lens care systems on the clinical performance of a contact lens, Optom. & Vis Sci April 2013;90(4):344-350. 2. Lira M, Surface roughness and refractive index changes in contact lens induced by lens care systems Eye Contact Lens. 2014 May;40(3):140-7

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Contact Lens Safety

Incidence of CIEs:

DD vs Reusable:

12.5 X less likely with DD!

DD SiHy vs DD Hyd:

SiHy DD: 0.4%

Hyd DD: 0%

1.Chalmers, Robin L. et al, Multicenter Case-Control Study of the Role of Lens Materials and Care Products on the Development of Corneal Infiltrates, Optometry & Vision Science. 89(3):316-325, March 2012.

2. Chalmers R.I. et al, Rates of Adverse Events With Hydrogel and Silicone Hydrogel Daily Disposable Lenses in a Large Post Market Surveillance Registry: The TEMPO Registry. Invest Ophthalmol Vis Sci. 2015 Jan 8;56(1):654-63

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When is enough...enough.

- You've confirmed the Rx
- Always confirm distance Rx first
- You've shared The 3 Revelations
- $^{\mbox{\tiny --}}$ "The goal is to meet most of your needs most of the time"
- "You may need to give up a little bit of crispness for freedom"
- "This is as good as it gets"

