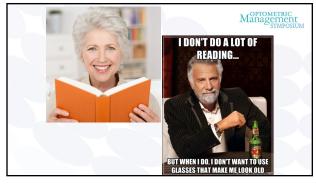


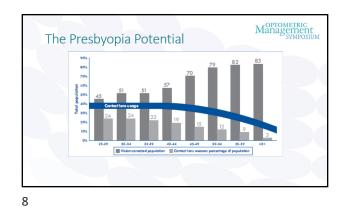
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				Manag	
Number One Reasons for Contact Lens Dropout					
Number one reason for dropout		Americas (includes U.S.)	Asia/Pacific	Europe/Middle East/Africa	
Comfort/fit	50.0%	52.9%	41.9%	45.6%	
Vision not as good as with glasses	15.9%	14.2%	3.8%	17.5%	
Expense	12.3%	11.6%	11.9%	17.5%	
Difficult to put in and take out	7.2%	8.4%	7.5%	7.0%	
Bifocal/trifocal lenses don't work as well as eyeglasses	5.1%	4.5%	0.6%	0.0%	
Inconvenient to wear	5.1%	4.5%	10.0%	0.0%	
Lens care/cleaning too time consuming	2.2%	1.9%	0.6%	0.0%	
Fear of or history of eye infections	0.7%	0.6%	17.5%	3.5%	
Lens care/cleaning too difficult	0.7%	0.6%	0.6%	0.0%	
No selection	0.7%	0.6%	1.3%	1.8%	
Need to clean frequently	0.0%	0.0%	3.1%	1.8%	
Doesn't correct for astigmatism	0.0%	0.0%	0.6%	1.8%	
Easy to lose	0.0%	0.0%	0.6%	1.8%	
Need for regular eye exams	0.0%	0.0%	0.0%	1.8%	

Presbyopia and Contact Lenses

• Pre-presbyopia - sooooo easy!!!! - distance only lenses

• Presbyopia -- sooo many options!!

• Distance lenses with readers

• Distance lenses with Vuity

• Monovision

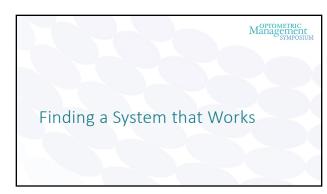
• Multifocal

• Modified Monovision

• How do you decide?

9 10





11 12



Exploring the Various Lens
Options

13 14

# Considerations for Lens Selection Soft vs. GP vs. Hybrid or Scleral DVO vs Monovision vs MF Soft lens options Multifocal Aspheric – spherical or toric - center near Multifocal Concentric – spherical or toric – center near or center distance Single vision sphere or toric Recognize that optically some are more similar than others but all are different

Soft Multifocal Pearls

• Due to layered optics, uneven correction is common to utilize if tolerated

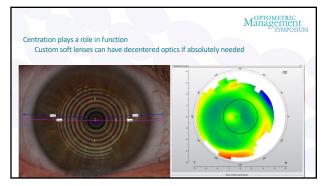
• Follow fitting guide to start with

• Do NOT overminus – do not assume the labelled power is matching the patients RX - fog and unfog monocularly OD and OS then blur up with plus then come down binocularly

• Do not be afraid to leave a little undercorrected cylinder

• Try to correct to the meridian of LEAST minus/MOST plus

15 16



Soft Monovision Pearls

• Give FULL MONOCULAR correction to the distance eye (do not overplus or underminus)

• Do not give too much near to the near eye (you lose intermediates)

• Consider a multifocal in the near eye for expanded range at near and less distance disturbance

• Remember you need 20/20 at distance but only really need 20/25-20/30 at near

#### Soft Toric Pearls

Management Considerations for Lens Selection Management SYMPOSIUM

- Err on side of undercorrecting cylinder
- Watch rotation, soft toric monovision cannot function with unstable lenses (one eye is blurry already)
- Presbyopes tend to have more issues with toric lens rotation with prism ballasted lenses, consider dual slab off
   When rotation occurs, don't just switch to another lens of the same design
- When one eye has cyl and the other does not, consider a soft toric single vision lens in one eye and a multifocal in the spherical eye
- GP lens options
  - Multifocal Aspheric center distance
  - Multifocal Concentric center distance
  - $\bullet \ \ \mathsf{Multifocal\ Translating} \mathsf{Bifocal\ /\ Trifocal\ /\ Progressive}$
  - Single vision sphere or toric

19

20

#### **GPs for Monovision**

Management

- Again, just like all lens types, GPs can be used for monovision
- Work well when astigmatism is present or with traditional GP wearers
- Easy to convert distance only lens wearers when they reach that age

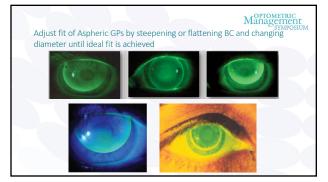
#### **GP Aspheric Multifocals**

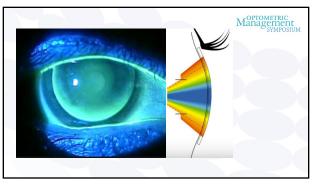
Management

- Work well in most cases
- Vital to get the fit right!!
- Ideal fit should be a fairly centered, lid controlled fit
- If the lids are such that lid control is impossible, you cannot fit these successfully
- If the lens is TOO lid controlled, again, you cannot fit
- these successfully

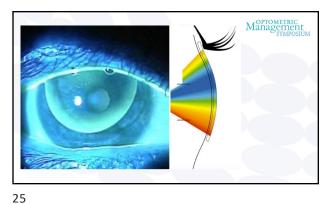
   Will tend to take too much minus and never achieve good near vision if over minused

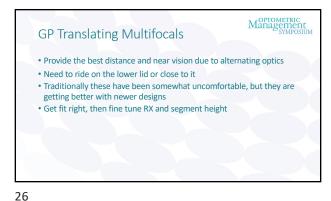
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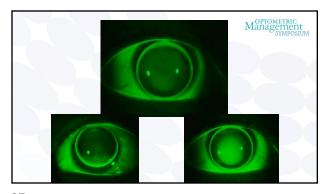


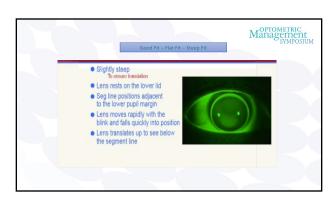


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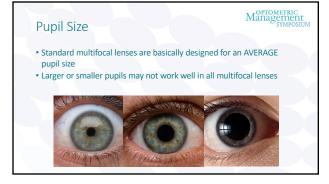
Management Hybrid lenses • Great for astigmatic correction • Can use for monovision • Multifocals available as well, but not as many customized parameters • Centration is a must again • Fit is tricky at times • If you can get the fit right, they can work great • Nice for part time wear

Management Considerations for Lens Selection • Does their ocular health status require a lens that is in a premium • Are having daily disposables a priority? • Consider K's and HVID to make sure that lens fit is not an issue that • Pacific University SCL Sagittal Depth Story

29 30





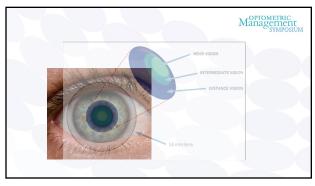


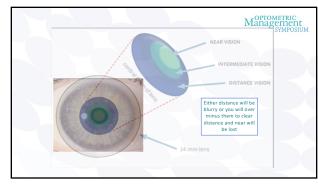
Pupil Size

• Small pupils will only take in what comes through the center of the lens
• For center near designs that may mean blur at distance and over minusing to compensate
• For center distance designs that may mean less near VA

• Large pupils will not get enough of the center of the lens correction and may not see well at near with a center near design
• Also, many lens designs have increasing minus in the lens periphery, so larger pupils may end up over minused without careful over refracting or will accept more plus
• Some designs attempt to adjust the add zones for the typical pupil size in an RX
• With monovision, this is irrelevant

33 34



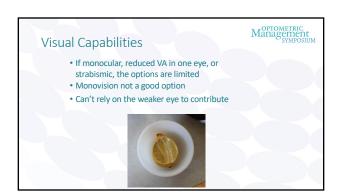


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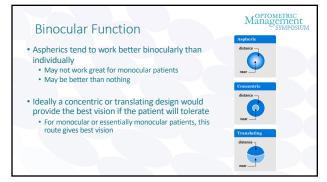








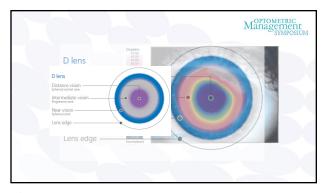
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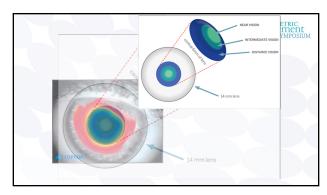


Prior Refractive Surgery

Creates a difficult corneal shape to work with
Forget translating designs
Movement is too unpredictable
Scleral lenses work WELL
MAYBE if you are lucky a soft disposable will work
Don't forget the optics of a post surgical eye
Don't forget lens flexing which generates more plus meaning patients will eat up minus

41 42





### **Refractive Status**

- Moderate to High Myopia (above -4.00)
- Low Myopia (below -4.00)
- Low Hyperopia (below +1.50)
- Moderate to High Hyperopia (above +1.50)
- Astigmatism

  - Low = Below 1 diopter
    Moderate = 1.00 to 2.50 diopters
  - High = Above 2.50 diopters

#### Moderate to High Myopia

- Management
- Fully dependent on corrective lenses
- Really cannot functionally remove glasses to do near work of any volume
- Often are contact lens wearers by history
- Should be among the easier groups to convert to Presbyopic contact

45 46

#### Low Myopia

Management

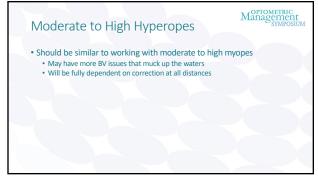
Management

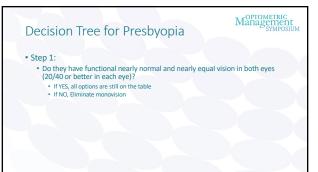
- Typically CAN remove glasses and be functional at near
- Many were contact lens wearers but are more apt to simply drop out when they realize they can see better with their glasses
- More challenging to keep in full time wear
- May opt for part time wear
  - Can often try dropping a lens for monovision

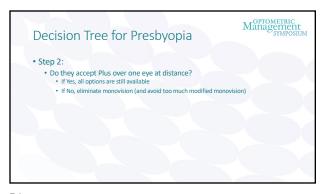
#### Low Hyperopes

- Often see distance well, will start with NVO in many cases
- SHOULD be easy to convert to CL since many have NO glasses wear experience and are not adapted to glasses limitations
- When distance VA starts to drop, you have a golden opportunity to put them in multifocal lenses
  - You can help the near a lot without making the distance worse-just don't be too aggressive
- Monovision can work with these individuals, but don't be surprised if they only want to wear a lens in the near eye even if there is refractive error in the distance eye

47 48







Acceptance of Monovision / Uneven Management
Correction

• My methods:

• Standard eye dominance test is not good enough!

• Plus acceptance test

• I full distance correction OU

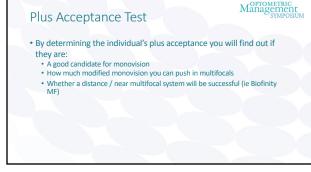
• Hold +1.00 or +1.25 over one eye then the other

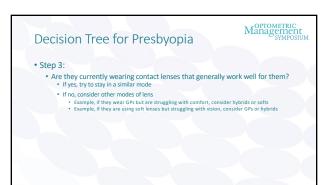
• Ask patient which is more comfortable or tolerable, when the lens is over the right eye or the left

• Then hold the lens over the eye that was less bothersome to the patient and show them distance and near targets and see what their reaction is

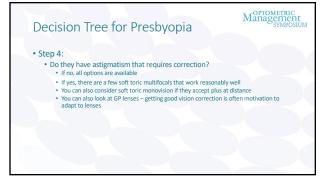
• Let them know that by giving up 5% of their distance vision, they gain 80% of their near vision

51 52





53 54



Decision Tree for Presbyopia

• These are the major 4 questions to get you into a narrowed down place
• From here, you ought to have a good feel for what lens you will want to use

55 56



Over refracting...

• Every fitting guide and protocol says NOT to use the phoropter....

• You cannot efficiently assess binocular plus acceptance with loose lenses

• Use the phoropter to binocularly balance and fog to max plus endpoint, THEN use LOOSE LENSES to verify and adjust from there

57 58

# Over Refracting • With Monovision – Over refract the near eye to distance so I have an idea of the working add power of the near eye before I try to adjust it • For example, if the patient is 62 and complaining of near issues... • You over refract the near eye to distance and get -3.00 • You over refract the near eye to distance and get -1.25 • Two different strategies to manage them, but without knowing the distance OR you cant correctly approach this

While trying to improve VA at distance or near I try to avoid actually having patient read the chart
 The patient may read 20/20 but have doubling and hate the quality of vision
 Instead ask them to look at a full chart of various sized letter and give you a subjective assessment of the clarity of the letters on the chart (1-10), then repeat at near
 Then make the changes you want to try to the RX in one eye or the other and ask them again to subjectively report the clarity of distance and near VA
 By making them commit to a subjective score you can compare one RX to another

59 60









63 64





65 66

Case 1

• What would you do for testing with CL still on the eye at this point?

Case 1

• CL OR at distance: +0.50 OD and OS
• Refraction today
• OD. -3.50 sph 20/20 D 20/25 N
• OS: -3.00-0.25 x 80 20/20 D 20/25 N
• What would you RX at this point?

67 68

Case 2

• 47 year old female

• Presents for annual exam with CC of decreased near VA

• Current Spec RX:

• OD: -5.50-1.50 x 175 20/20

• OS: -5.50-1.75 x 005 20/20

• Current CL:

• OD: AV Oasys for Astig -5.00-1.25 x 180 20/20 D 20/40 N

• OS: AV Oasys for Astig -5.00-1.25 x 180 20/20 D 20/40 N

Case 2

• What would you do for testing with CL still on the eye at this point?

69 70

Case 2

• CL OR at distance: plano sph OU

• Refraction today
• OD: -5.50-1.25 x 170 20/20 Add +1.25
• OS: -5.50-1.50 x 008 20/20 Add +1.25

• What would you do at this point?

Case 3

• 54 year old female presents for annual exam complaining of near blur

• Currently in:

• OD: Air Optix MF, -3.25 medium add

• OS: Air Optix MF -3.75 high add

• What would you do with this?



Case 4

• Current lenses from old records
• OD: 7.5 BC/ 9.4 diameter / -4.00 / Add +3.25
• OS; 7.42 BC / 9.4 diameter / -4.25 / Add +3.25
• Lens fit:

Thoughts?

73 74

Case 5

• 49 year old male
• Decreased near VA
• Current spectacles (3 yrs):
• 0D: +2.00 -1.50 x 180
• 0S: +1.75 -0.75 x 175
• Current CL
• Biofinity toric OD: +2.00 -1.25 x 180
• Biofinity toric OS: +2.00 -0.75 x 170

• Biofinity toric OS: +2.00 -0.75 x 170

• 20/20 2 D 20/40+ N

Case 5

• 49 year old male
• Decreased near VA
• New refraction
• 0D: +2.25 – 1.50 × 180
• 0s: +2.00 – 0.50 × 175
• What would you do with this??

75 76

Maintaining the System

Maintaining the System

• Think about how you determine your spectacle wearers RX each year

• If a PAL wearer came in and said they were having reduced near VA, what would you do?

• You WOULDN'T just dip loose lenses at near to see if it helped their VA then write the SAME distance RX with a new add....

• You would refract at distance first always to determine the new DISTANCE RX first, then determine the near add over it

77 78

### Management Maintaining the System • What happens to nearly all NORMAL presbyopic patients RX over Shift toward less myopia / more hyperopia Shift toward less WTR / more ATR cylinder in the RX • They require more add as accommodation continues to decline Anyone that changes differently is NOT NORMAL and should be considered for other ocular health problems (corneal disease, cataracts, diabetic changes,

Maintaining the System

Management

- So just as you would change a patients spectacle RX toward less minus / more plus if they truly had changed even if they "weren't complaining".... You have to with CL wearers as well!
- Don't forget most of what most patients are trying to see in a course of a day is NOT infinitely far away!
- If someone is not complaining of distance issues but takes PLUS through their CL at distance.... It WILL HELP them at all distances other than infinity don't forget about that!!

79 80

#### Maintaining the System

Management

- So don't forget to push plus at distance binocularly
  - · You are expecting it at some point anyway
  - If you don't look for it, the patient will just use the add power of their CL for distance clarity then complain of near issues
  - NEVER Increase the add power of CL without first pushing the plus in the distance portion of their RX First!!
     Once lenses come out, confirm changes that you find in your OR with the

  - If you find less minus / more plus in the CL RX at distance, then you should hopefully find it in the spec RX as well

#### Maintaining the System

Management

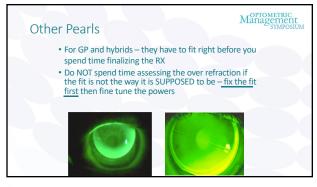
- Don't forget to verify fit (particularly with GPs)
- Don't forget to maintain ocular health and fight dry eye disease

81 82

## Management Other Pearls er One Reasons for Contact Lens Dropout 10.0% 0.6% 17.5% 0.6% 1.3% 3.1% 0.6% 0.6%

Management Other Pearls - the Comfort Paradigm Avoid MPS (H2O2 or dailies) Manage dry eye Good habits especially with screen use

83 84



Other Pearls

• For part time wearers and those that mainly want CL for distance activities, use a low add in one or both eyes to provide a slight amount of near correction

85 86



Final Comments

• This is such a huge potential opportunity for many practices that they forgo

• Presbyopic contact lens wearers are a GREAT referral source and a GREAT way to start to build a specialty contact lens practice

• Every practice has presbyopes already

• Not every practice has a lot of KC or irregular corneas

87 88





89 90