



Debunking Custom Soft Lens Myths

Dr. Matthew Lampa

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Host: Dr. Elise Kramer





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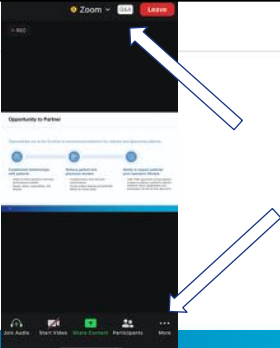


3

- For each hour of CE units, attendees must be online for a minimum of 50 minutes
- For a COPE certificate, please fill out the survey link in the chat. Also, the survey link will appear when the webinar ends.
- CE certificates will be delivered by email and sent to ARBO with OE tracker numbers
- We will also display a QR code at the end of the event if you have the OE tracker app on your phone.
- **CE certificates will be emailed within 4 weeks**
- Ask questions using the zoom on-screen floating panel



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Speaker Bio –

Matthew Lampa received his Doctor of Optometry degree from Pacific University College of Optometry in Forest Grove, OR. After graduation he completed a residency in Cornea and Contact Lenses at Pacific University College of Optometry. He is currently a Professor at Pacific University College of Optometry where he is involved with specialty contact lens fitting, contact lens instruction, and clinical research. He is also currently an associate in a private practice in Silverton, Oregon.

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Financial Disclosures

- ABB honorarium
- Art Optical honorarium
- Contamac honorarium
- Medmont honorarium
- SpecialEyes consulting

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All financial relationships have been mitigated.

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Debunking Custom Soft Lens Myths

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Indications for Custom Soft Lenses

- Custom Toric Designs
- Keratoconus
- Post Trauma
- Post Refractive Surgery
- Aphakia
- High Refractive Error
- Glaucoma
- Macro/Micro Cornea

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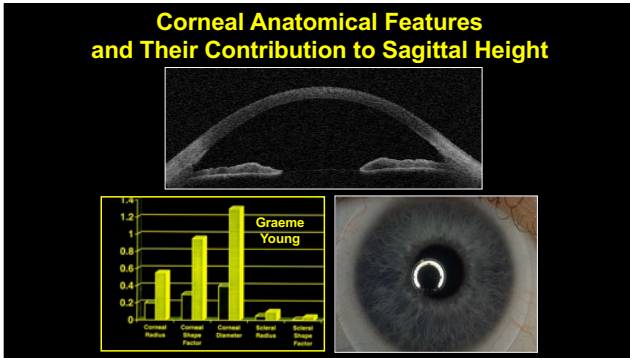
Custom Soft Lens Parameters

- Customized parameters
 - Base curve
 - Diameter
 - Material
 - Power
 - Optical zone
 - Center thickness
- Designs
 - Keratoconus
 - Base curve / Fitting curve
 - Reverse geometry

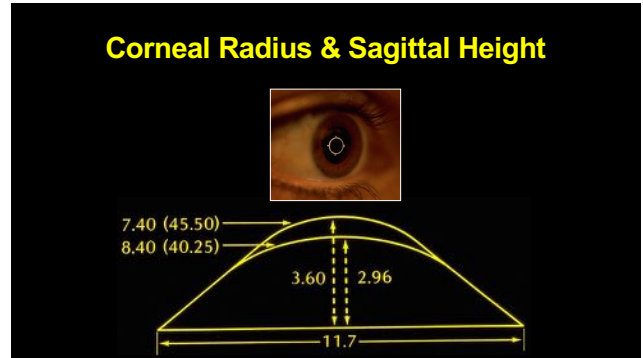
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Sagittal Depth of the Cornea and CL

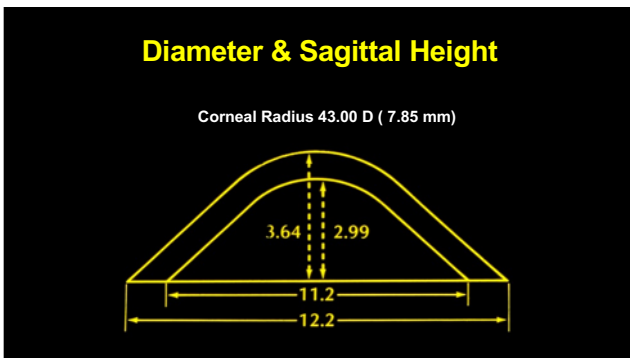
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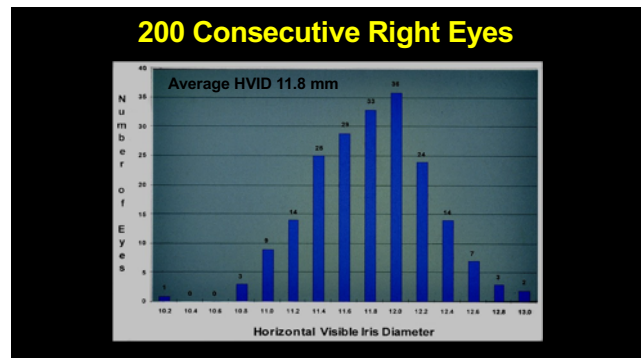
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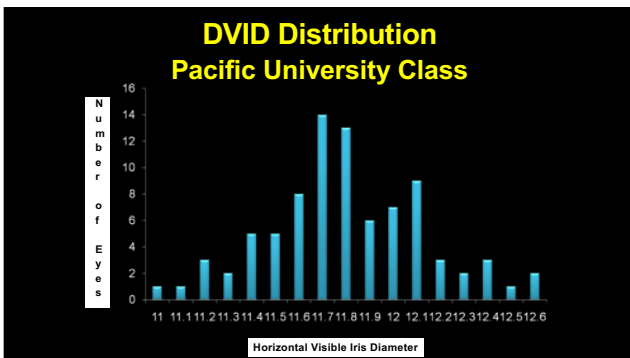
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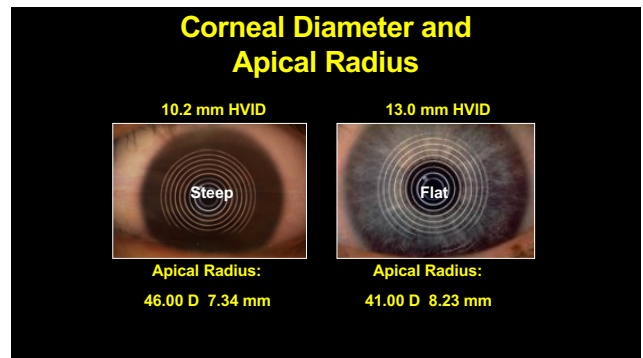
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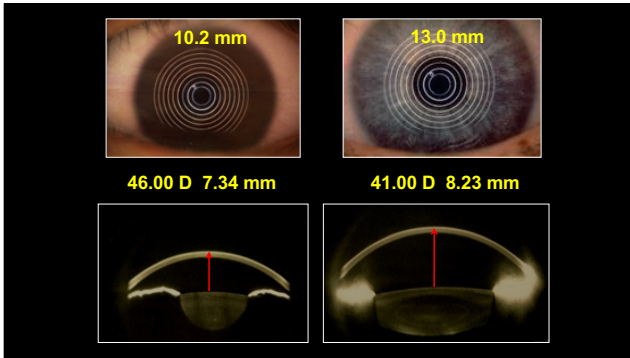
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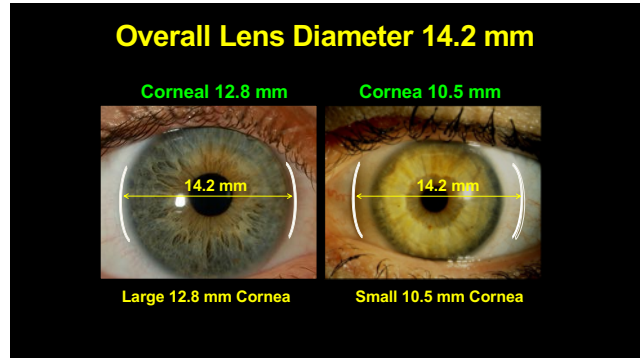
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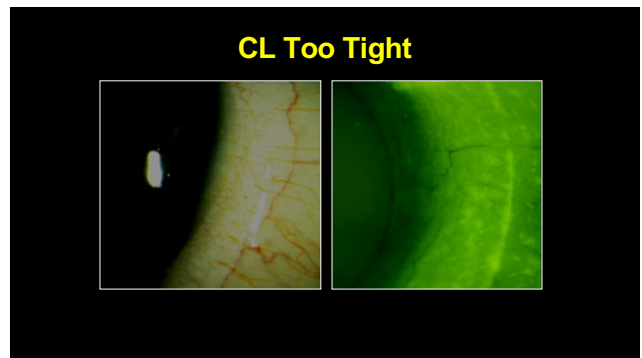
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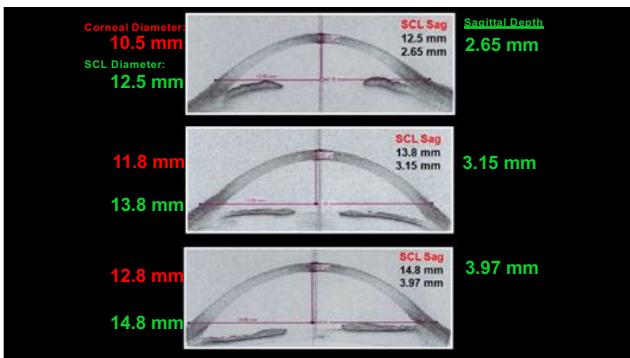
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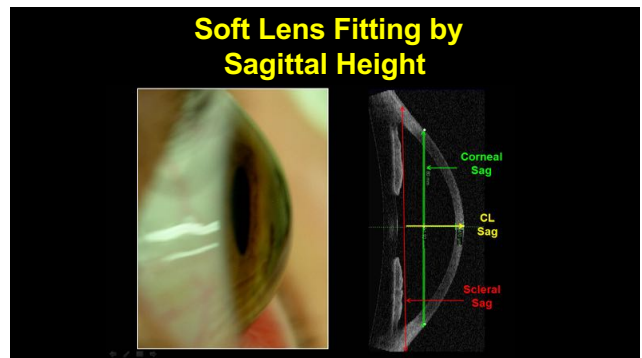
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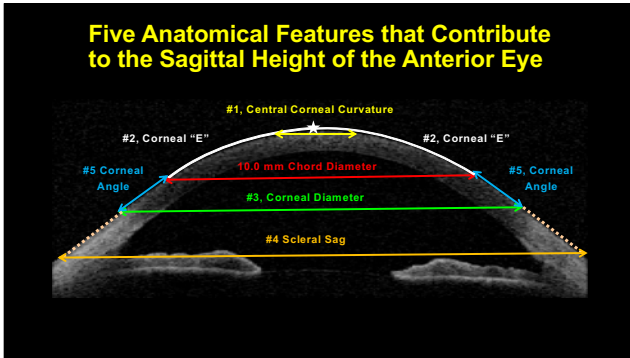
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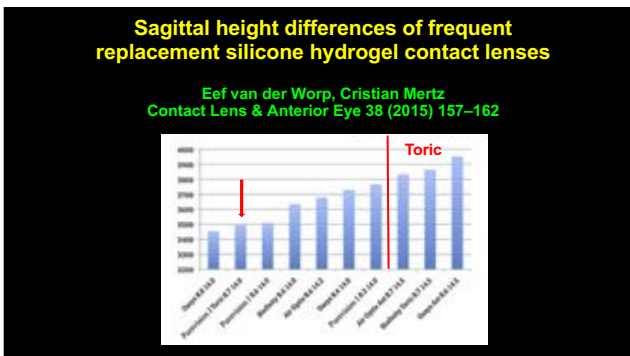
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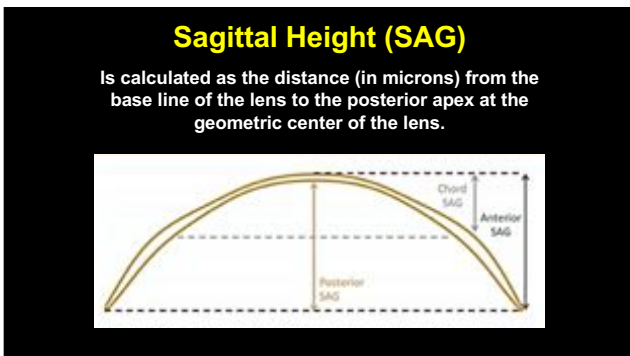
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What are the sagittal heights of our currently available soft contact lenses???

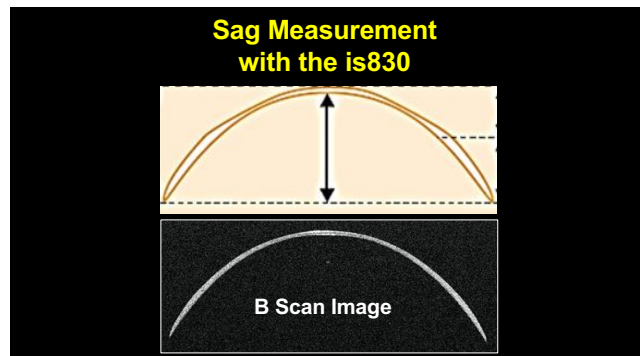
Optimec Is830

Dr Ben Coldrick
 Head of Technical Development
 Optimec Limited
 Malvern, Worcestershire
 United Kingdom

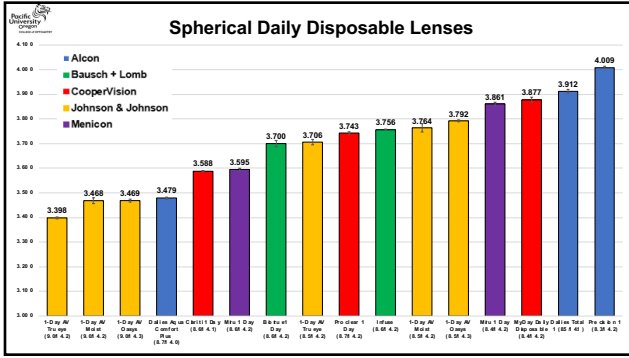
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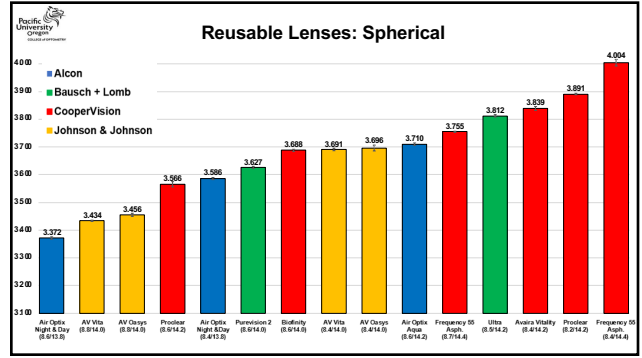
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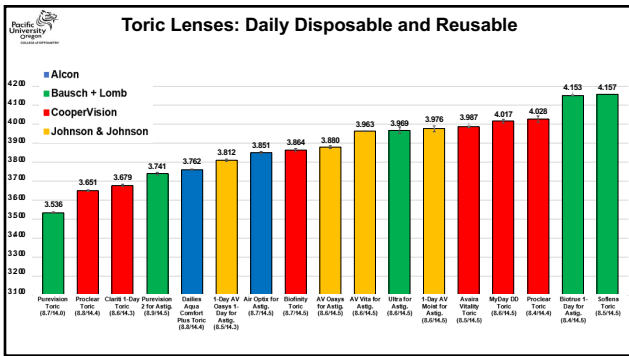
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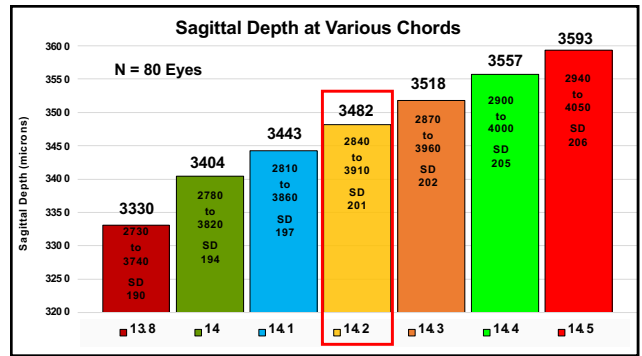
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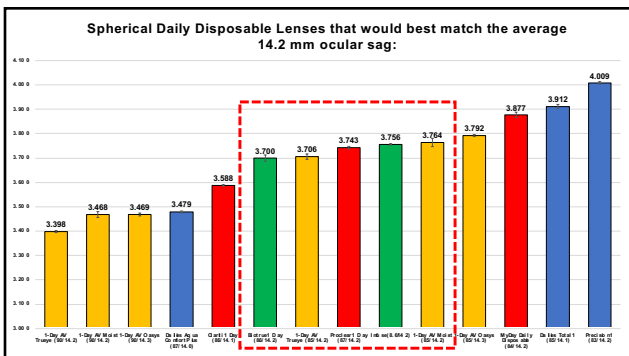
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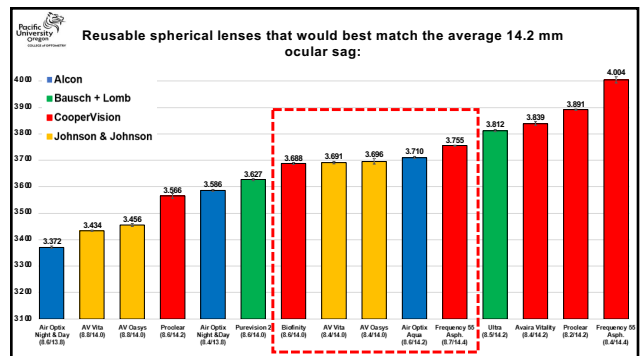
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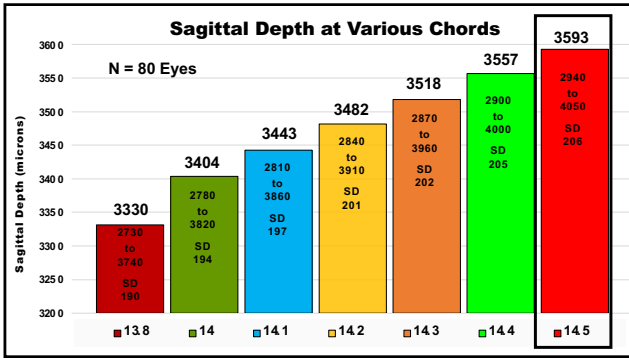
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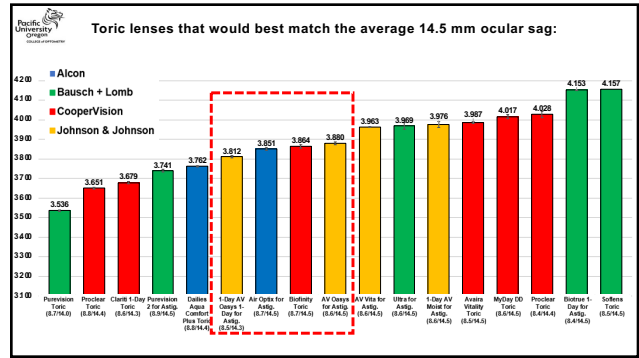
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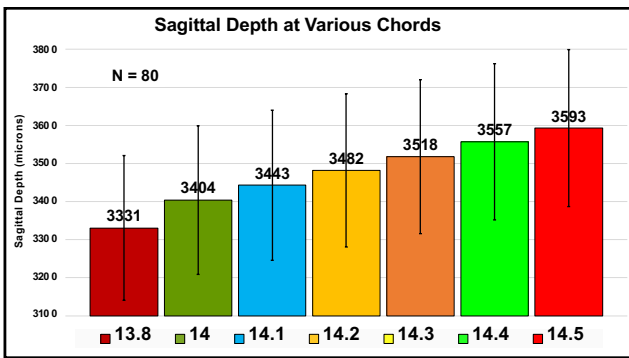
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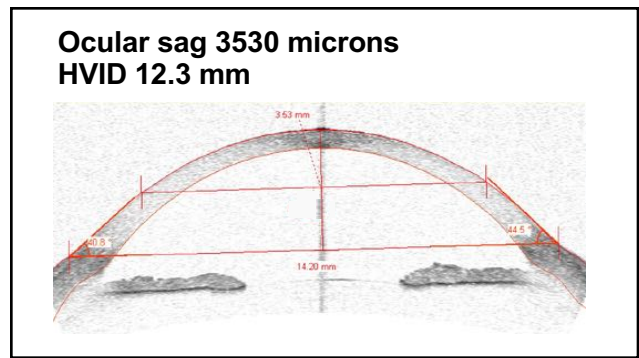
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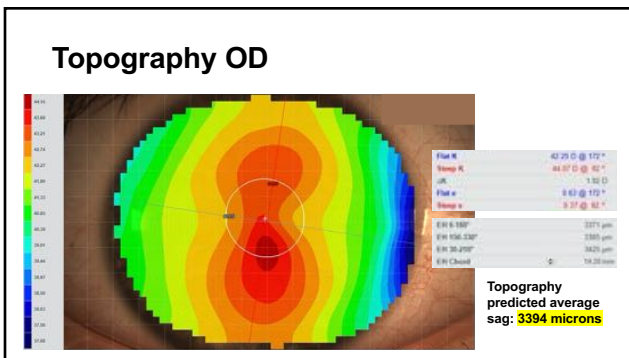
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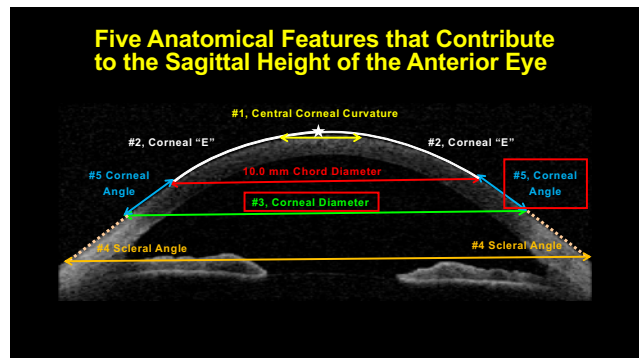
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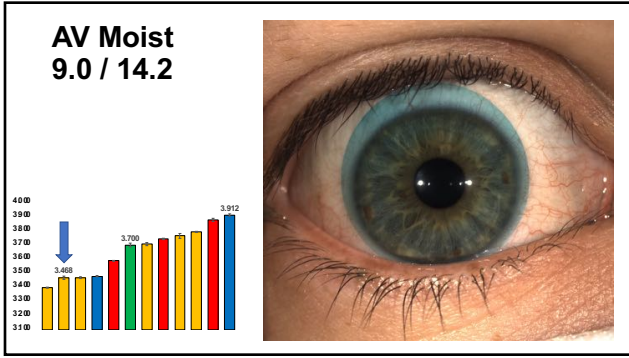
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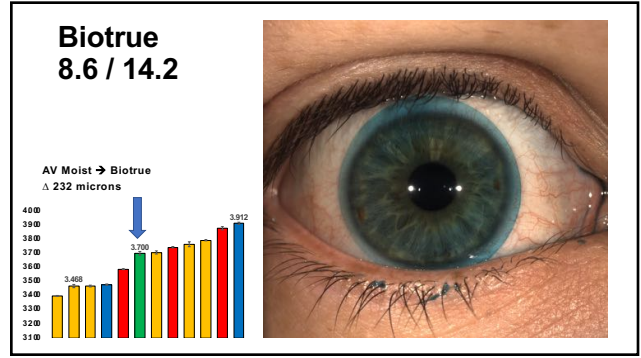
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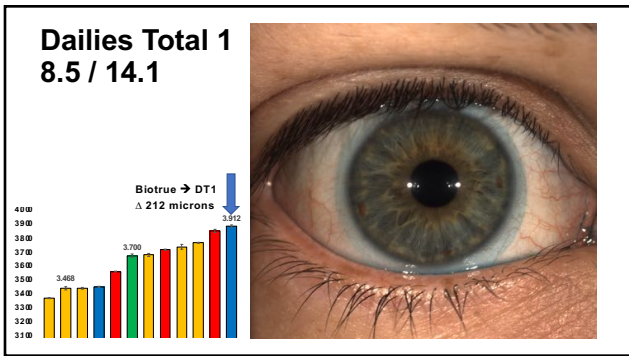
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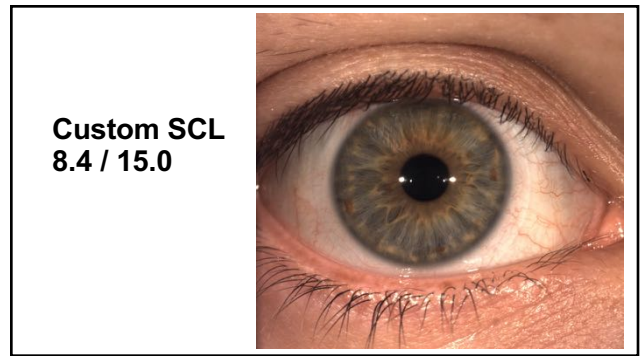
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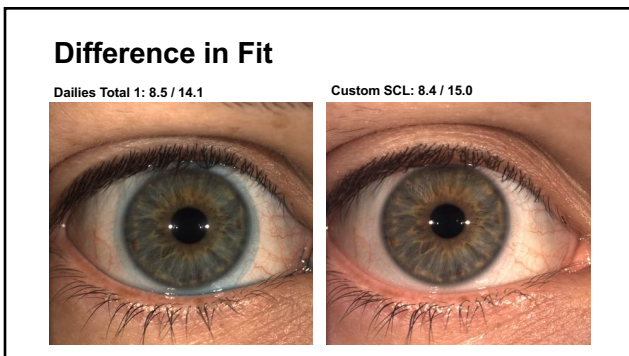
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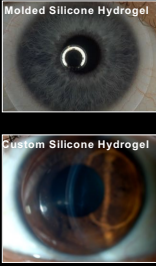
ADDITIONAL LENS PROPERTIES (BEYOND SAGITTAL DEPTH) THAT MAY INFLUENCE THE PHYSICAL FIT OF A SPECIFIC SCL

- Material modulus (hardness / stiffness)
- Anterior lens design
- Lens thickness
- Hydration/wettability
- Specific gravity

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Types of Silicone Hydrogel Materials

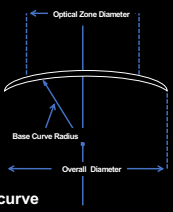
- Molded S/H** Alcon, B+L, CooperVision, Johnson & Johnson
- FDA Approved Latheable S/H**
 - Contamac (Definitive 74, 65, 50)
 - Acuity Polymers, (Lagado LSH)



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Custom Soft Lens Parameters

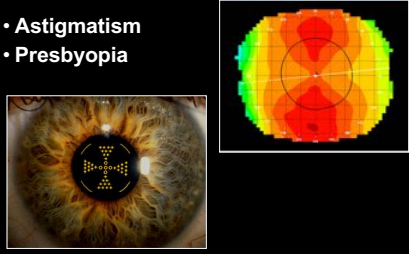
- Customized parameters
 - Base curve
 - Diameter
 - Material
- Power
- Optical zone
- Center thickness
- Designs
 - Keratoconus
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 - Reverse geometry



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Power

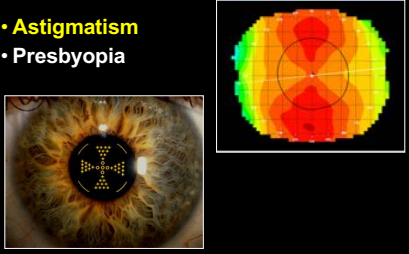
- Astigmatism
- Presbyopia



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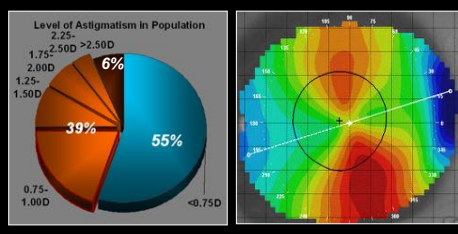
Power

- Astigmatism
- Presbyopia



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Custom Toric SCL Lens Design



Level of Astigmatism	Percentage
2.25-2.50D	6%
1.75-2.00D	39%
1.25-1.50D	55%
0.75-1.00D	<0.75D

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Custom Toric Lens Design

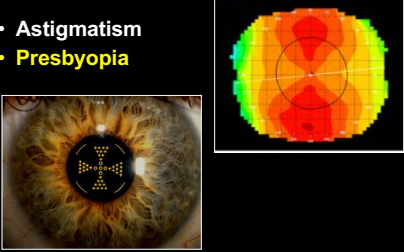
Base Curve: Any
 Power: Sphere, Cylinder or Axis Any
 Diameter: Any



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Power

- Astigmatism
- Presbyopia



The image shows a close-up of a human eye with a contact lens. To the right is a color-coded power map. The map features a central red area (near vision) and a surrounding yellow/green area (distance vision), with a cross-shaped pattern indicating astigmatism.

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Indications

- Presbyopia with astigmatism
- Suboptimal vision in stock multifocal lenses
- Fit issues in stock multifocal lenses
 - Decentration
 - Large or small corneas
 - Steep or flat corneas
- Large or small pupil
- Intolerance to GP contact lenses

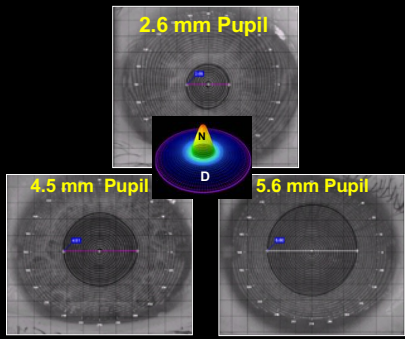
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Soft Multifocal Lens Designs



The image displays two circular diagrams representing lens designs. The left diagram is labeled 'Aspheric Center Near Design' and shows a central red area with a blue ring. The right diagram is labeled 'Aspheric Center Distance Design' and shows a central blue area with a red ring.

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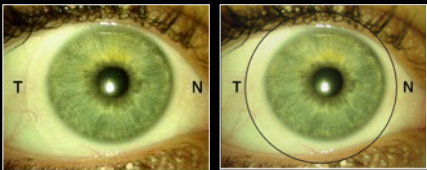


The image shows three diagrams of contact lenses with different pupil sizes: 2.6 mm (top), 4.5 mm (bottom left), and 5.6 mm (bottom right). In the center is a diagram with a yellow 'N' at the top and a blue 'D' at the bottom, representing near and distance vision zones.

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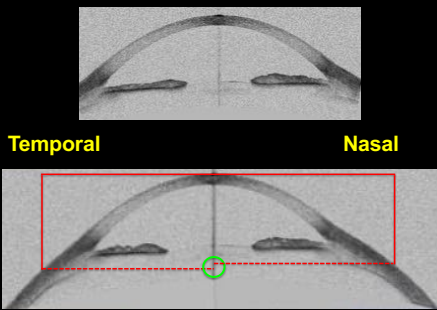
Observation

Why do soft contact lenses frequently decenter temporally???



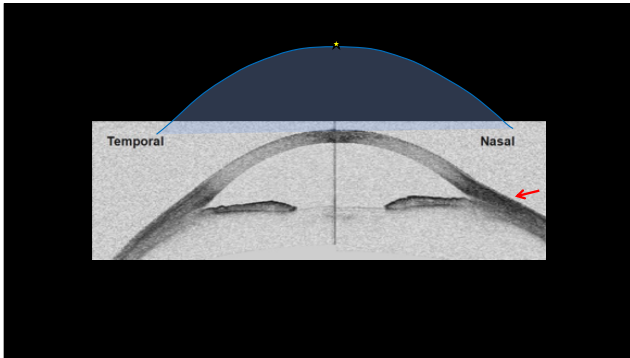
The image shows two diagrams of an eye with a contact lens. The left diagram shows the lens decentered towards the temporal side (labeled 'T'). The right diagram shows the lens decentered towards the nasal side (labeled 'N').

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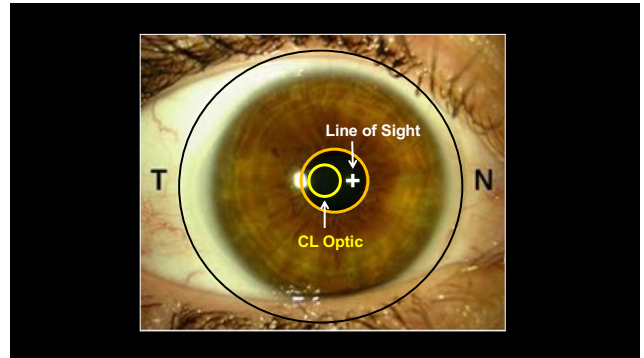


The image shows two diagrams of contact lenses. The top diagram shows a lens with a red dashed line indicating decentration. The bottom diagram shows a lens with a red dashed line and a green circle indicating decentration. Labels 'Temporal' and 'Nasal' are present.

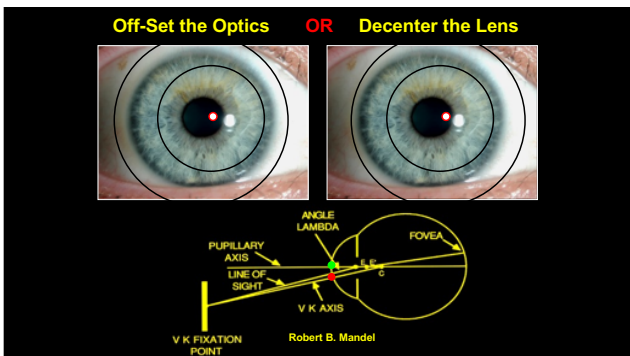
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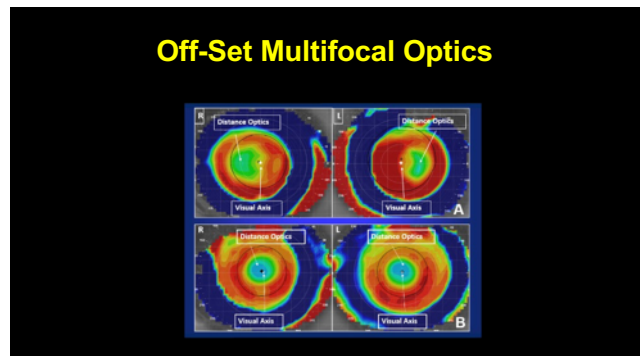
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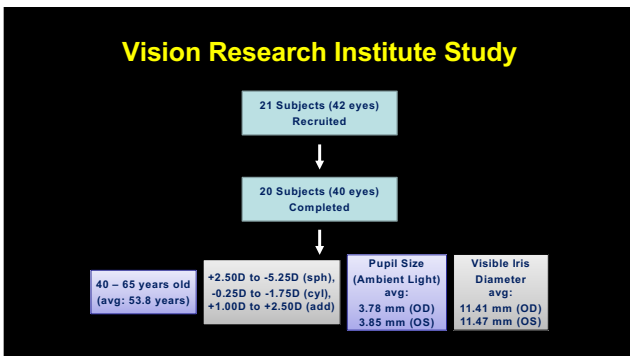
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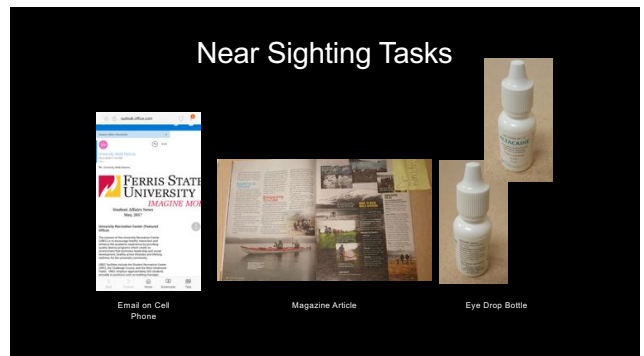
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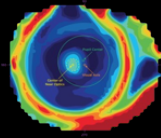
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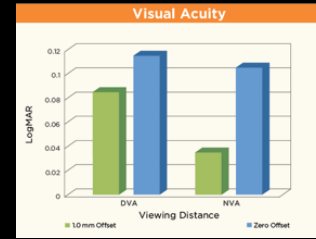
Baseline Misalignment Observations

Average Misalignment	OD (mm)		OS (mm)	
	1.0mm Offset	Zero Offset	1mm Offset	Zero Offset
	-0.02 (± 0.36)	0.64 (± 0.27)	-0.19 (± 0.17)	0.78 (± 0.22)



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Quantity of Vision



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Quality of Vision



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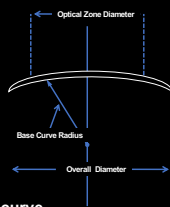
Conclusions

- Statistically and clinically significant difference for 1.0 mm offset designed lenses for all near viewing tasks
- Distance viewing was similar regardless of lens pair worn
- Subject Feedback:
 - There are no overlapping letters
 - I have less of a 3D effect
 - The double letters are gone
 - I don't see a halo around the letters anymore
- 19 of 20 subjects preferred offset

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Custom Soft Lens Parameters

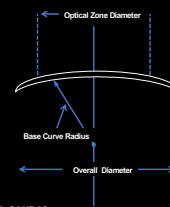
- Customized parameters
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What is a Custom SCL?


- Customized parameters
 - Base curve
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 - Designs
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Soft Contact Lenses for KCN

- Initial Base Curve Selection**
 - Mean K + 1.00 mm
 - Example:
 - 54.00 D (6.25 mm) @ 165 / 55.50 D (6.08 mm) @ 077
 - Mean K = (6.25 mm + 6.08 mm) / 2 = 6.16 mm
 - Initial BC = Mean K + 1.00 mm = 7.16 mm
 - Initial Base Curve = 7.20 mm
- Select Fitting Curve**
 - 8.3 mm, 8.6 mm or 8.9 mm
- Select Overall Diameter**
 - 10.0 mm to 17.0 mm



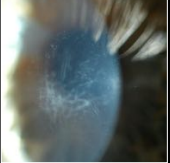
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Patient: KB Age: 50 M

History: Keratoconus OU with history of GP intolerance

K's: OD 61.62 @ 174 / 55.00 @ 084
OS 51.75 @ 030 / 46.00 @ 120

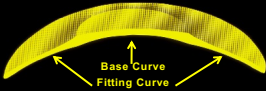
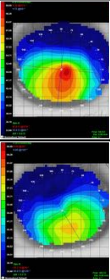
MR: OD +3.00-3.25 x 088
VA 20/60
OS +4.50-4.25 x 105
VA 20/70



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Patient: KB Age: 50 M

- Mean K**
 - OD 58.37 D (5.79 mm)
 - OS 48.85 D (6.91 mm)
- Base Curve**
 - OD 5.79 mm + 1.00 = 6.8 mm
 - OS 6.91 mm + 1.00 = 7.9 mm

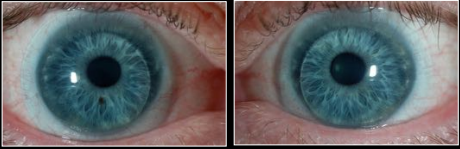



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Custom SCLs for KC

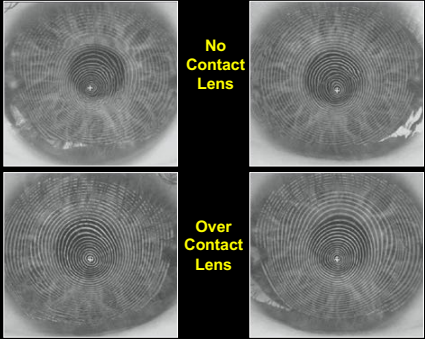
OD: 6.8 mm / -1.50-3.25 x 072 / 14.8 / 8.9 mm fitting curve

OS: 7.9 mm / -0.25-2.75 x 104 / 14.8 / 8.9 mm fitting curve



VA 20/25 OD VA 20/20 OS

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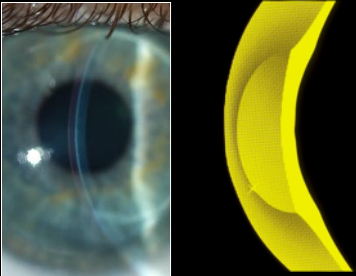


No Contact Lens

Over Contact Lens

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Center Thickness



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Summary Custom SCL

- Builds your practice
- Increases your referrals
- Not a commodity
- Locks the patient into your practice
- Annuity to your practice

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Ordering

Materials

- Power
- Sphere
- Toric
- Multifocal
- Toric Multifocal

Trials

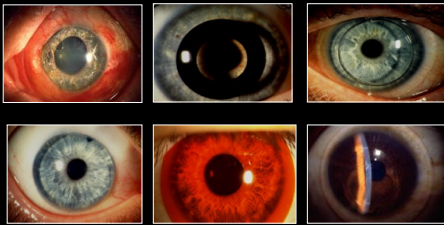
- Standard delivery 4 days
- Expected delivery 2 days
- Exchange (if necessary)

Replacement

- Quarterly

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Debunking Custom Soft Lens Myths



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If you have any questions, you may send an email to [Please put your email address here.](#)

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Thank you! Please join us for our next COPE events

A promotional banner for COPE events. On the left, it says "WHAT YOU SHOULD KNOW ABOUT NEUTROTROPIC KERATITIS" with a date of "December 15, 2022" and speakers "DR. SHIBUYAMA" and "DR. FUNG". On the right, it says "ANTIBODY DRUG CONJUGATES" with a date of "January 5, 2023" and speaker "SPEAKER: Husein Barghout, OD, MS". The banner includes photos of the speakers and the Woo University logo.

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