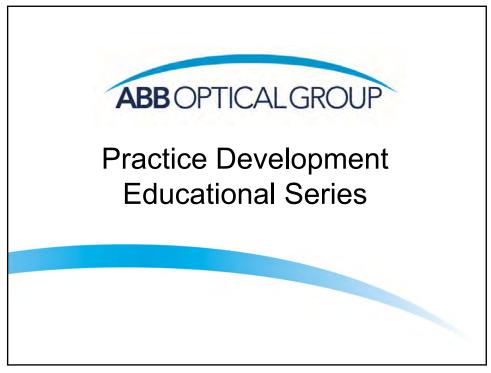


Strategies for Solving Contact Lens Complications



1

Welcome

- Turn up your volume!
- Handout of slides can be downloaded
- Maximize/minimize screen and tool bar
- If you lose the screen, click on the blue flower on your taskbar
 - Technical difficulties while we are online visit gotowebinar.com or call Toll-free: (877) 582-7011 Long Distance: (805) 617-7370









Strategies for Solving Contact Lens Complications

Practice Development Educational Series

<u>Fopic</u>	Date	Time	Speaker	
Scleral Lens Design and Fitting: The Basics	Available for viewing	Maria Walker OD, FSLS, FAAO		
Getting the Most out of Presbyopic Contact Lens Options	Available for viewing	online	Thomas Quinn OD, MS, FAAO	
Strategies for Solving Contact Lens Complications	Thursday, September 17, 2019	9-10PM ET	Clark Chang OD, FAAO	
Practice Management Tips for Billing and Coding and other Issues to build your specialty Contact Lens Practice	Thursday, December 12, 2019	9-10PM ET	Stephanie Woo OD, FAAO, FSLS	

3



Clark Chang, OD, MSA, MSc, FAAO is Director of Cornea Specialty Lenses at Wills Eye Hospital - Cornea Service and Director of Clinical Services at TLC Vision

Dr. Chang has over a decade of clinical research experiences in corneal crosslinking and other advanced treatment methodologies.

He publishes extensively in clinical management of keratoconus and other corneal pathologies, innovative uses of specialty contact lenses, and modern applications of refractive surgery technologies. Given the unique academic, research and clinical backgrounds, Dr. Chang frequently lectures in U.S. and international educational conferences.





Strategies for Solving Contact Lens Complications

Financial Disclosure

- Employment
 - Wills Eye, Cornea -- Director, Cornea Specialty Lens
 - TLC Vision Director, Clinical Services





- Honoraria/Research Support/Travel Grants
 - Alcon
- Allergan

AMO

Avedro

- Oculus
- SynergEyes
- Sun Pharma

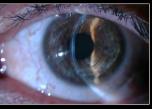
Alden Optical

Valley Contax

5

Solving CL Fitting (CLF) Complications Beyond the Era of One Size Fits All!







RGP

Soft KC

Piggyback







Recessed CL System

Hybrid

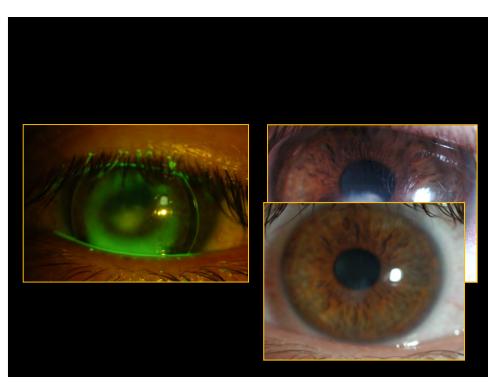
Scleral



Strategies for Solving Contact Lens Complications

Solving CL Fitting (CLF) Complications Beyond the Era of One Size Fits All!







Strategies for Solving Contact Lens Complications

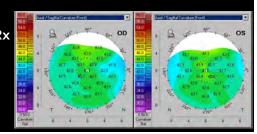
Solving CL Fitting (CLF) Complications Beyond the Era of One Size Fits All!



9

Solving CL Fitting (CLF) Complications Case #1: Best of Both Worlds

- 55 YO, Asian, F, Hospital Administrator
- Mod-high myopia with full time CL wear
- Hx: CLs x 35+Yr, Hydrogel SCL in early 8o's
 - Switched to GPs due to allergy; Good DVA & Acceptable comfort
 - 1 Yr ago, refit in Monthly SCL (Mononvision, +1.50D Add OS)
 - Overall, Soft CLs are more comfortable, BUT worse IVA & NVA
 - d/c soft CLs & resumed GPs
 - Increased uses of Reading Rx
- Plan: Discussed MF
 - GP vs Hybrid





Strategies for Solving Contact Lens Complications

Solving CLF Complications

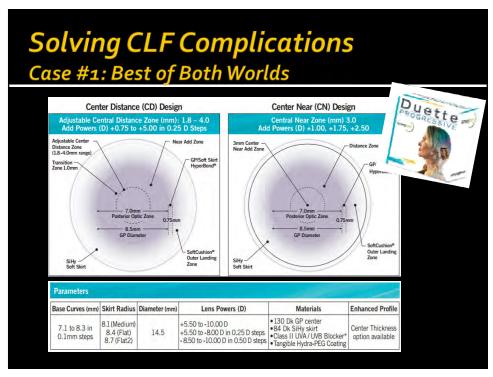
Case #1: Best of Both Worlds

- Old MR (Oct 2017)
 - OD -6.75 -0.75 x090
 - OS -6.50 -0.75 x100
- New MR
 - OD -5.25 -1.50 x077 20/20
 - OS -5.25 -1.00 x090 20/20

- Ks (Pentacam)
 - OD 43.50/42.50 x99.6
 - OS 43.50/42.70 x108.7
- Add Power (Spectacle)
 - ► OD +1.75 20/20 (J1+)
 - OS +1.75 20/20 (J1+)

- Dominance
 - OD

- **Pupils**
 - ▶ Photopic: 3.5mm, OU
 - ► Mesopic: 5.omm, OU





Strategies for Solving Contact Lens Complications

Solving CLF Complications

Case #1: Best of Both Worlds

- The soft skirt size is best determined by HVID
 - If HVID is > 11.8mm, start with an 8.1 (Medium) skirt
 - If HVID is ≤ 11.8mm, 8.4 (Flat) skirt is indicated
 - If HVID measurements are not available, begin with an 8.1 skirt*
 - If Hydra-PEG is not ordered, begin with the FLAT skirt 8.4
- Center Distance Zone size is driven by photopic pupil diameter
 - Measure photopic pupil diameter for each eye using a PD ruler.
 - Center Distance Zone size is calculated by subtracting 1.0mm
 - Available zone size range: 1.8 4.0 mm

13

Solving CLF Complications Case #1: Best of Both Worlds

Parameters		Center Near				Center Distance				
Central Zone Size	3.0	3.omm				1.8 – 4.0mm				
Add Powers	+1.	+1.00, +1.75, +2.50				+0.75 - +5.00D (in 0.25D steps)				
Patient Target	٠	Higher add presbyopes				Emerging presbyopesOther applications				
pectacle Add	+0.75	+1.00	+1.25	+1.50	+1.75	+2.00	+2.25	+2.50		
esign: Dominant Eye	CD	CD	CD	CD	CD	CD	CN	CN		
esign: Non-Dominant Eye	CD	CD	CD	CD	CD/CN	CD/CN	CN	CN		
=Center Distance CN=Cent	er Near									



Strategies for Solving Contact Lens Complications

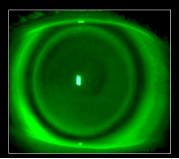
Solving CLF Complications Case #1: Best of Both Worlds

■ 1st f/u

- Good compliance with H2O2 Soln, Good comfort & lens handling
- Great IVA/NVA with Hybrid OU, but OD DVA not as sharp as OS DVA
- Mild night halo/glare, OD > OS
- OD: CD/ZN 3.5/7.8/Med/-5.50/Add +1.75 20/30- (OR -0.75 20/20-)
- OS: CN/ZN 3.0/7.8/Med/-5.50/Add +1.75 20/20- (OR -0.50 20/20)
- NVA OU J1+
- NaFL eval can be optional

Final Rx at 1 Mth f/u

- CN Designs OU improved DVA/NVA
- Over CL Rx:
 - OD: -1.00 Sph
 - OS: -0.50 Sph

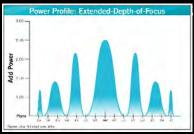


15

Solving CLF Complications Case #1: Best of Both Worlds



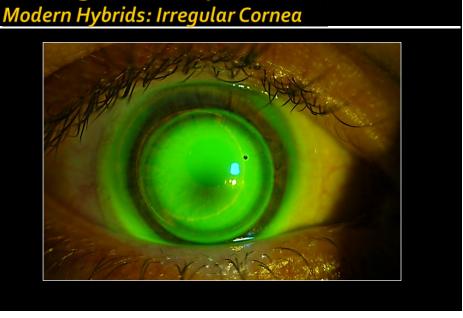






Strategies for Solving Contact Lens Complications

Solving CLF Complications



17

Solving CLF Complications

Modern Hybrids: Irregular Cornea

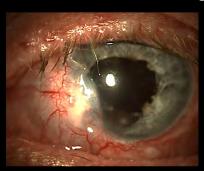


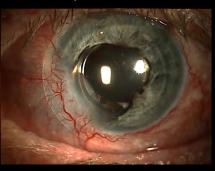


Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #2: Modern Hybrids To The Rescue

- Challenges of "major" scleral obstacles
 - Hyperemia ± air bubbles ± decrease comfort
 - Customized technologies for Haptic and OZ



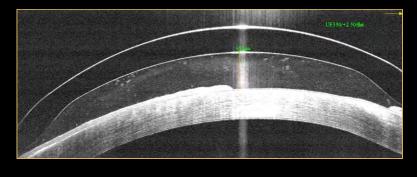


Courtesy of J Sonsino, O.D., FAAO

19

Solving CLF Complications Modern Hybrids: Do's & Don'ts

- ASOCT & Slit Lamp: Evaluate both central and peripheral corneal vault
 - Central ~100 150mi





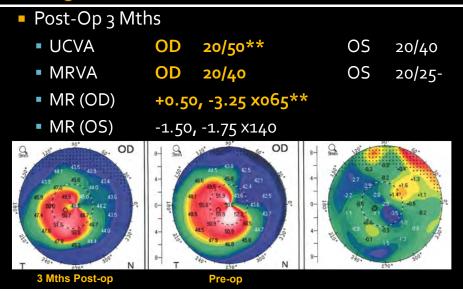
Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #3: Glasses Are KCN's Best Friend?

- Pt RB, 68 y/o WM, w/ KC Hx ~40 yrs
- c/o of GP intolerance and d/c CL wear,
- c/o unhappy with UCVA and BSVA
- Pt interested in CXL
- Anterior Segment findings consistent with KC, OU; (-) Scar/Nodule
 - NS 1+ OU, otherwise WNL

21

Solving CLF Complications Case #3: Glasses Are KCN's Best Friend?

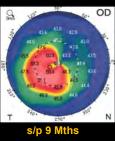


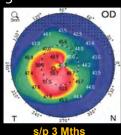


Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #3: Glasses Are KCN's Best Friend?

- Post-Op 9 Mths
 - Has been refit to Hybrid CLs by referral OD with improved CL tolerance (all day wear)!
 - Still unhappy with CLVA, Blur OD > OS
 - (-) Ghosting/Monocular Diplopia...
 - DVA & NVA are still better in glasses





23

Solving CLF Complications Case #3: Glasses Are KCN's Best Friend?

CLOR (OD) +0.75, -1.50 x065 20/30+

CLOR (OS) +0.75, -1.00 x050 20/20-3

A: Residual Cylinder OU

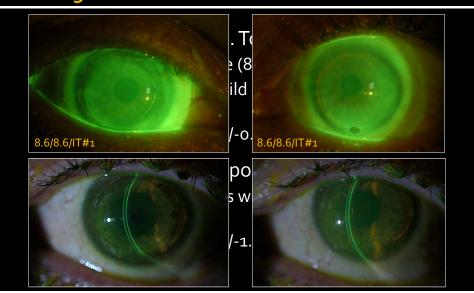
P: Discuss CL Refit OU in Custom Soft KC CLs





Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #3: Glasses Are KCN's Best Friend?



25

Solving CLF Complications Case #3: Glasses Are KCN's Best Friend?

Custom Soft KC - Novakone F/U #1

- Good comfort and improved CLVA
 - OD CLVA: 20/30- OR: -0.50 20/30+ (IT Factor?)
 - OS CLVA: 20/25+
 OR: -0.50
 20/20-
- However, reports spectacle blur
 - OD ~1-2 Hr (SLE: Mild bearing, OD>OS)
 - OS ~20 Min (SLE: Mild bearing, Excess Movt)



Strategies for Solving Contact Lens Complications



Solving CLF Complications
All Roads Lead to Rome

In 45 out of 48 eyes (24 subjects), VA was the same or improved with new thinner soft KC design

POST-GRAFT - NIACS SUBJECTS
POST-GRAFT - NIACS SUBJ

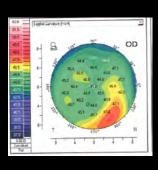


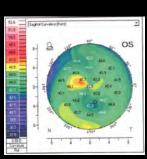
Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #4: Two is Better than One?!

Assessment: KC, OU

Plan: CXL & refit CL 3 Mths post-CXL







29

- OD SynergEyes A/7.2/8.2/-6.00
 - Cyl OR: -0.50, -0.50 x090 2020+
- OS SynergEyes A/7.3/8.3/-5.00
 - Cyl OR: Plano, -0.50 x100 20/20+
- SLE: Central/Junctional vault & Good Movt, OU
 - Patient noted improvement in VA & Starburst
 - Pt ed about large pupils vs OZ, Rx given for Alphagan-P (if needed)
 - Pupils (Bright/Dim): 5.5 mm/8mm OU



Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #4: Two is Better than One?!



- OD SynergEyes A/7.2/8.2/-6.50/EP
- OS SynergEyes A/7.3/8.3/-5.00/EP

31

- f/∪#1
 - Patient reports good comfort & improved VA, OU
 - CLVA OD 20/20-2 (OR: plano)
 - CLVA OS 20/20-2 (OR: plano)
- Mild improvement in night starburst, only with Alphagan-P o.1%
- SLE: Good center / ILZ vault & CL Movement, OU
 - Mild Anterior surface protein deposit, OU

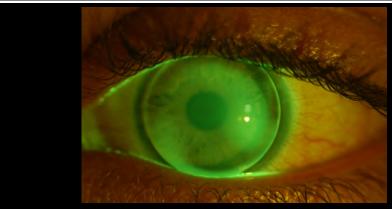


Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #4: Two is Better than One?!

- Plan: Suspect possibility of night flare symptom due to aberrant pupil sizes. Refit in GP.
 - OD 44.50/-4.25/10.5/<mark>OZ 8.5</mark>/STD PC (20/20)
 - OS 44.25/-3.25/10.5/OZ 8.5/STD PC (20/20)
- Pt reports good comfort & better VA (vs hybrid or old soft toric CLs)
 - Much less starburst & sees it only from his peripheral vision (from "edge of the GP lenses")
 - Symptom improves slightly with Alphaga-P o.1%

33



- OD 44.00(7.67mm)/-3.75/11.2mm/OZ 10.0/1-STP PC
- OS 43.75(7.71mm)/-2.75/11.2mm/OZ 10.0/1-STP PC
 * Boston XO material and plasma treatment ordered



Strategies for Solving Contact Lens Complications

Solving CLF ComplicationsCase #4: Two is Better than One?!

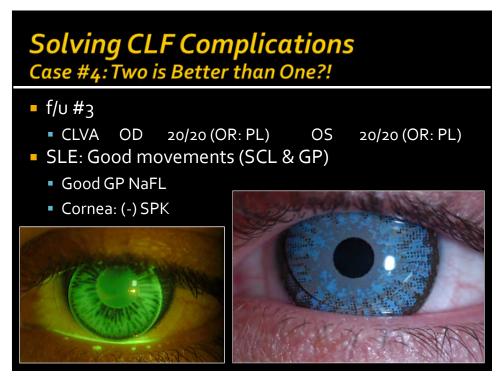
- f/u #2
 - Pt RTC after a 2nd opinion consultation with another corneal specialist ~1 month ago
 - Was Rx Pilocarpine 1% & d/c GP despite comfortable
 - Blurred DVA & brow ache, but improved night starburst
 - d/c Pilocarpine 1% due to brow ache ~10 days ago
 - Pt reports that he would tolerate VA reduction, if night starburst can be eliminated
- CLVA OD 20/20 (OR Plano)
- CLVA OS 20/20 (OR Plano)

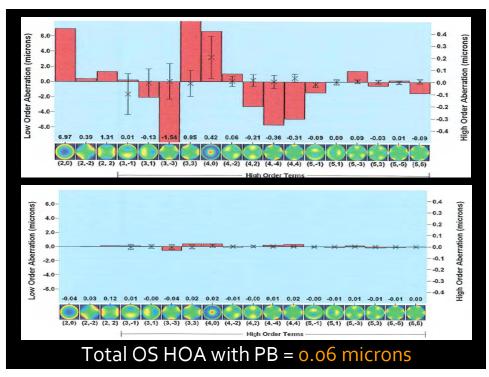
35

- Plan: Discuss utilization of piggyback with a color color prosthetic lens. Patient educated on concerns with oxygen permeability and need for close monitoring,
- Ordered color prosthetic CLs for PB system,
 - OD/OS: Durasoft 3 Colorblend Blue/8.3/Plano/3.omm open pupil/Light underprint OU



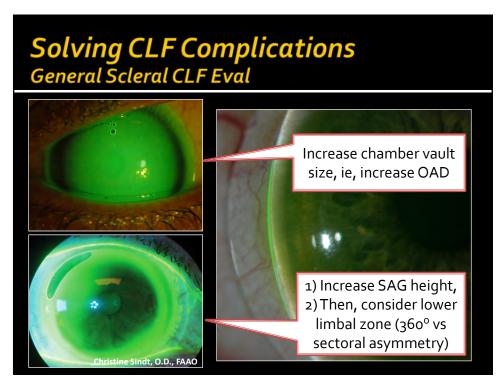
Strategies for Solving Contact Lens Complications



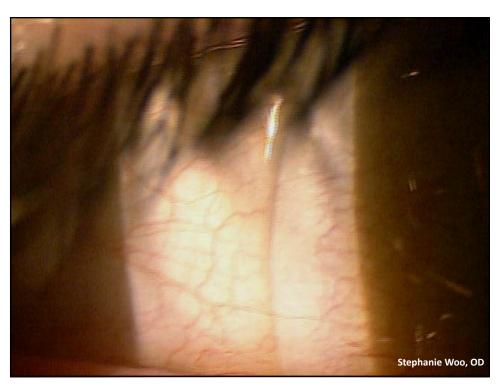




Strategies for Solving Contact Lens Complications

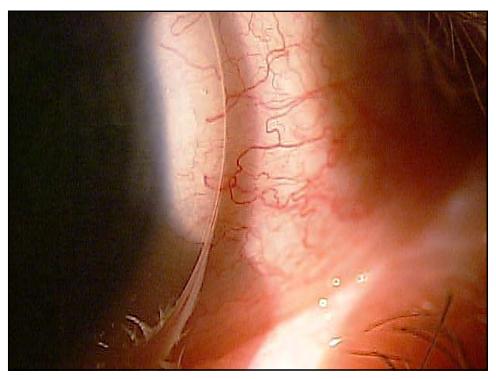


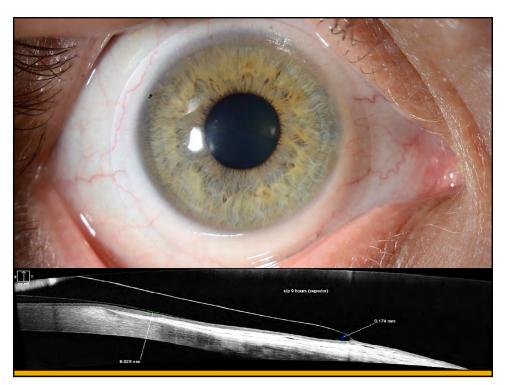






Strategies for Solving Contact Lens Complications







Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #5: The Devil is in the Detail

- 30 YO, Indian, Male, Long Hx of KCN
- Referred by OMD, non-candidacy for CXL
 - Thinnest CT OD 339mi

OS 294mi

- >10 Yrs of GP wear, but intolerance started ~1Yr
 - Was refit in PB, acceptable comfort
 - Episodic Photophobia & Pain, Upon awake & EOD,
 - Bothersome night Starburst & Halos, OS > OD
 - Dislodgement of GPs, controls head/eye Movt
 - Subsequent Hybrid refit & insert with Biotrue
 - uncomfortable & removal is difficult

43

Solving CLF Complications

Case #5: The Devil is in the Detail

CLVA (PB): OD 20/25-2

OS 20/30-2

PHVA (PB): OD

OS 20/25+2

CL Removal: OD 1+ SPK

OS 2+SPK

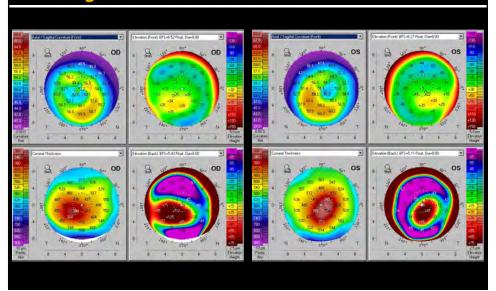






Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #5: The Devil is in the Detail



45





Strategies for Solving Contact Lens Complications

Solving CLF ComplicationsCase #5: The Devil is in the Detail

- Given general scleral shape data trend, current Dx CL diameter, small HVID, and mild PC mismatch, decided to order spherical haptics to start, OU
 - OD: Jupiter 15.6/4D Reverse Geometry/45.25/-1.25/OZ
 8.6/6.85-1.7/8.70-0.9/13.25-0.5/14.75-0.4/Opt Xtra/HP/Clear
 - OS: Jupiter 15.6/4D Reverse Geometry/46.00/-1.50/ OZ
 8.6/6.75-1.7/8.70-0.9/13.25-0.5/14.75-0.4/Opt Xtra/HP/Blue

47

- F/U #1
 - Good comfort, all day wear, resolution of Photophobia/Pain upon awake or at EOD,
 - Greatly reduced Starburst/Halos, No Dislodgement
 - Good VA OU (OD > PB vs OS < PB)</p>
 - OD CLVA 20/20-3 (OR: +0.25, 20/20-2)
 - OS CLVA 20/30 (OR: +0.50, -1.00 x055, 20/25)
 - Central Clearance, OU (5Hrs wear): ~100-120mi,
 - Good Limbal Clearance, OU

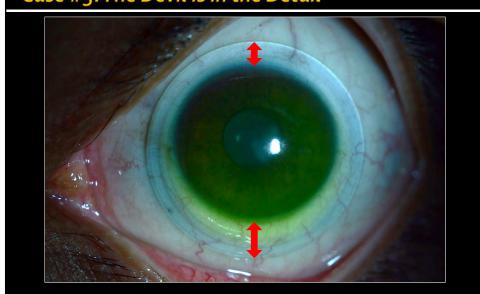


Strategies for Solving Contact Lens Complications

Solving CLF ComplicationsCase #5: The Devil is in the Detail



49





Strategies for Solving Contact Lens Complications

Solving CLF ComplicationsCase #5: The Devil is in the Detail

- Plan:
 - OD Keep as is,
 - OS 2D Toric PC to see if improve position & VA
 - OS: Jupiter 15.6/4D Reverse/2D Toric/46.00/-1.50/OZ 8.6/6.75-1.7/8.70-0.9/12.50-13.50-0.5/13.75-15.00-0.4/Opt Xtra/HP/Blue
 - Pt educate on potential removal differences in OS and demonstrated "lid message" technique, PRN

51

- f/u #2
 - Good comfort and all-day wear (15 hrs/day)
 - Night Starburst & Halos continues to improve
 - Good VA OU (OD > PB, OS = PB)
 - OD CLVA 20/20
 - OS CLVA 20/25+ (OR: +0.25, -0.25 x165)
 - Central Clearance, OU (2Hrs wear): ~150mi,
 - Good Limbal Clearance, OU



Strategies for Solving Contact Lens Complications

Solving CLF Complications Case #5: The Devil is in the Detail



53





Strategies for Solving Contact Lens Complications

Solving CLF ComplicationsPosterior Toric Haptics: Designs and Benefits

- PC Alignment & lens centration
 Mild Scleral Obstacles
- Regulate suction/lens removal
 Fogging in tear lens



55



Twitter: @ClarkChangOD
LinkedIn: www.linkedin.com/in/clark-chang-981b1322



Strategies for Solving Contact Lens Complications







Strategies for Solving Contact Lens Complications

ABB Delivers Greater Value

Call one consultant for access to specialty soft, Hybrids, and an extensive portfolio of multifocals, torics, sclerals, and irregular corneal lenses.

✓ **Order Consolidation** Ordering all lenses from one company via website or phone ordering.

✓ **Shipping efficiencies** One bundled shipment means time and money saved!

✓ Accounting efficiencies One statement and one payment means easy reconciliation

✓ Business Review

Measure your specialty portfolio growth in one simplified report

✓ Education

Lunch and Learns, staff trainings, live webinars, wet labs, and scleral boot camps

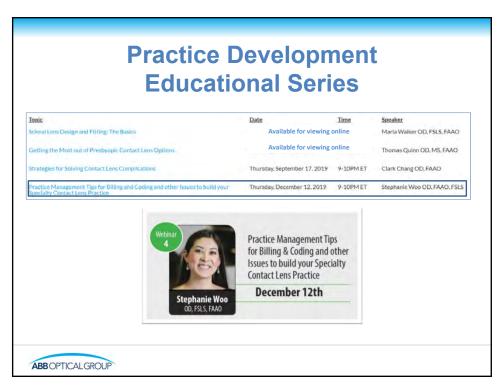
ABBOPTICALGROUP





Strategies for Solving Contact Lens Complications







Strategies for Solving Contact Lens Complications

