

Southern California College of Optometry

BACKGROUND

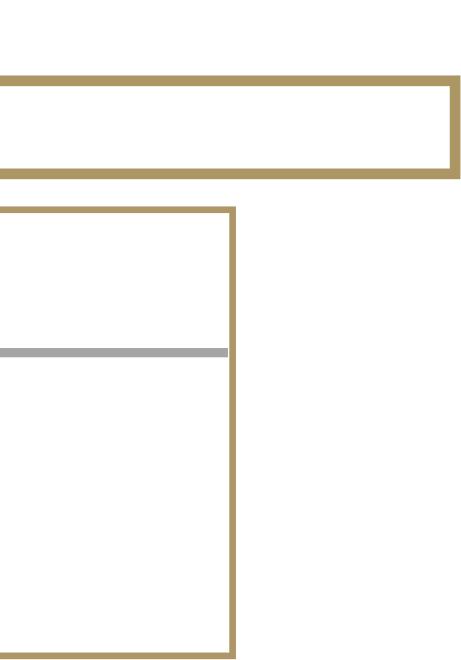
- A variety of conditions can benefit from a soft prosthetic contact lens, such as color deficiency, diplopia, photophobia, aniridia, leukocoria, microphthalmia, or strabismus.¹
- Types of lenses
- Frequent replacement: simple cosmetic change, pigment not dense enough for occlusion
- Computer printed: reproducible, useful for darker irides
- Hand painted: more precise, more expensive, useful for lighter irides
- To order, obtain:
- Fitting eye keratometry measurements, centration and stability information
- Fellow eye iris diameter, pupil diameter (normal room illumination), color matching photos²



- 62 H M
- Presents with above glasses
- CC: mild intermittent blur OD, photophobia
- POH: Repair for open globe rupture OS due to two inch finishing nail through cornea (Aug '17)
- Recurrent retinal detachments/Traumatic glaucoma OS
- Charles Bonnet Syndrome
- Lost to follow up for 2 yrs

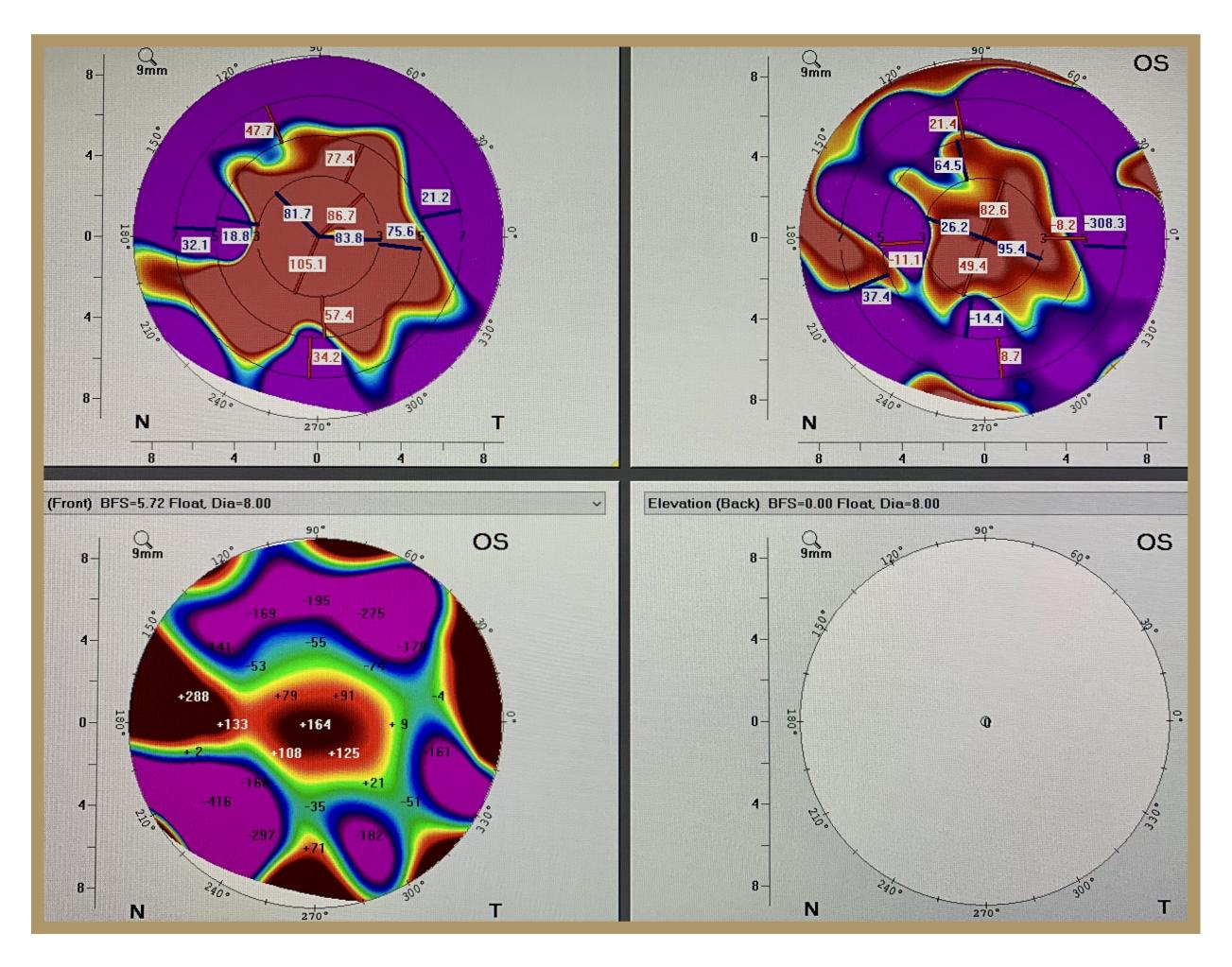
CLINICAL FINDINGS		
	OD	OS
VA	20/20, cc	LP, sc
IOP, GAT	16	40

Managing Photophobia and Cosmesis with a Soft Prosthetic Contact Lens Jennifer Nightingale, OD - Salt Lake City VA Medical Center





OD: ambient pupil size 3mm, HVID 11.5mm

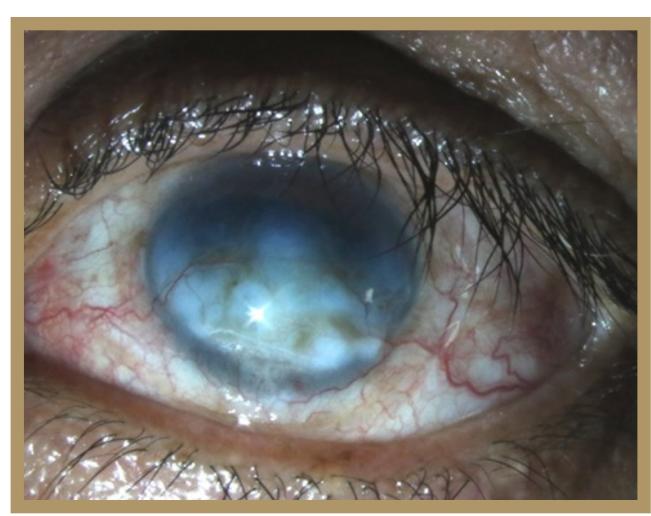


MANAGEMENT

- Traumatic glaucoma
 - Begin pressure lowering drops and Diamox. Consider future CPC.3
- Dry Eye
- Cause of intermittent blur. Begin ATs qid/prn.
- Photophobia
- Fit a prosthetic contact lens OS with occlusion backing for both function and cosmesis



NovaKone (15.0 dia, 6.6 bc) → large bubble inf/nas → adequate fit given circumstances brand not available with occlusion



OS: conjunctivization of cornea with deep neo

Orion bioColors (14.3 dia, 8.6 bc) → excessive edge fluting



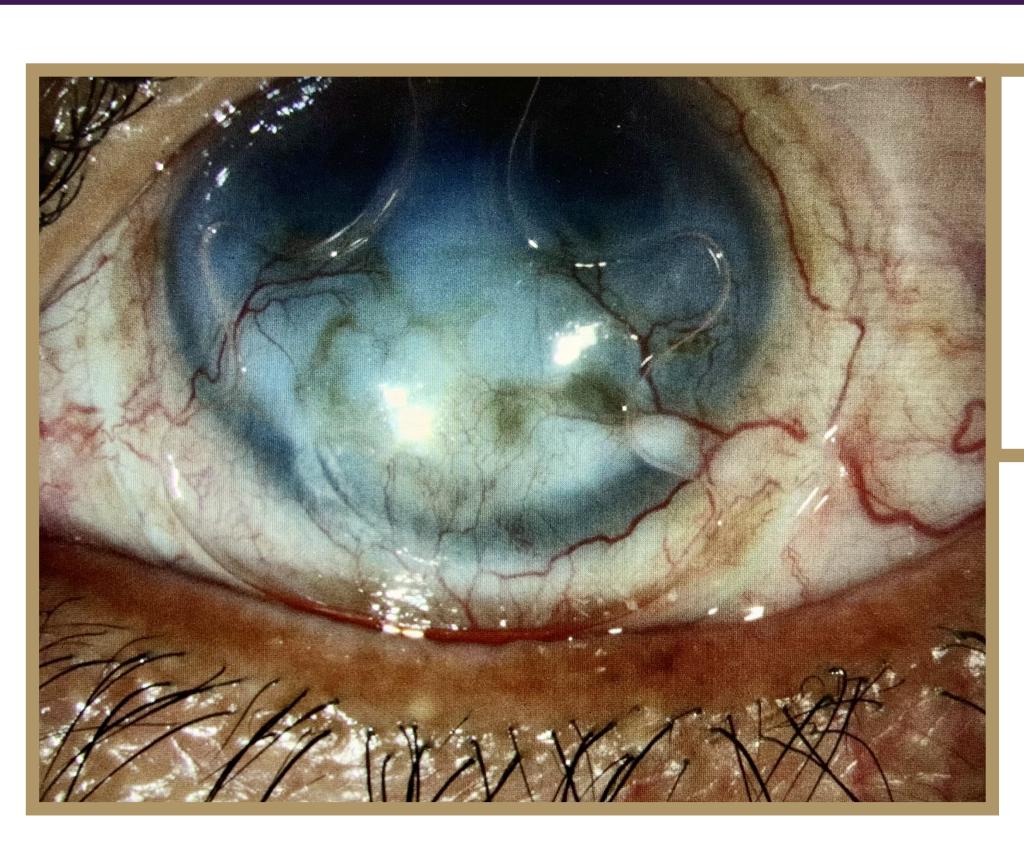


ABB clear custom trial (14.5 dia, 7.6 bc) → large bubble inf/nas → adequate fit given circumstances A okay to order with occlusion

Ordered:

- 14.5 dia
- 7.6 bc
- #55x, HVID 11.75mm

- Contact Lens Spectrum.

ABB clear custom trial (14.0 dia, 6.8 bc) excessively steep



Complete occlusion, Underprint U1, black 3mm pupil, iris color

TAKE HOME POINTS

Before investing in a printed lens, It can be helpful to order a clear trial to ensure proper fit, comfort, and vision.

Consider continued use of glasses over the lens. This aids in safety, helps to camouflage the prosthetic, and can change the perceived size of the eye.

Soft prosthetic lenses can improve the quality of life for patients with a variety of ocular conditions.

REFERENCES

1. Lam, D. (2015). Soft Contact Lenses for Prosthetic Fitting. Contact Lens Spectrum, 30, 33–39.

2. Cassel, M. (2010). Changing Lives With Prosthetic Soft Lenses.

3. Ahluwalia, M. A., & Vold, S. D. (2013). Managing the Blind, Painful Eye. Glaucoma Today, Clinical Strategies