# Beyond the obvious in the fitting of specialty contact lenses

Clinic Case 2:

Norma Cárdenas Opt, MSc, FIACLE & Patricia Flores PhD, MSc, IACLE, FSLS

### **Background:**

Quite often, we select specialty contact lenses based on corneal topography since it gives us an idea of how a contact lens (CL) should be aligned on the corneal surface. However, in this clinical case series, we invite the specialist to look past the obvious, seek the best selection of L1 design beyond topography, and value the visual system as a whole. The correct lens selection should be defined by the corneal surface, previous ocular history, motivation, ease of handling, and patient comfort

### Clinic Case 1:

Patient Information: Kules 59 years old General Markov Planina, Marge, Annual Astronomical artificitii Rassend Markov Planina, Marge, Annual Markov Planina, Server Markov Planina, Markov Planina, Markov Star, Server JJ, years JB, Neason For computisations: In the large Markov Echae caused recurrent kernitist and he fets this vision has decreased dramatically in the right eye. A few months age he had at lard a fatteral lenses, but because of his history of arthritis, lens handling uses too difficult (the does NOT want to use circal insens). The patient would like to continue to war contrast (of Beness Whot causing consult causing Collical History: Uncorrected VA: RE: CD (#50 cms LE: 20/400 Keratometry: RE: 53/3.50 x 8 LE: 7.27/6.45 x 154 Refraction: RE: -19.00 - 4.75 x 45 VA 20/400 Eye Right Rent Control Con  $\bigcirc$ RE: 19:00 – 4.75 x 45 Vn zu/wou LE: -25:0- 6:00 x15 VA 20/70 SiltLamp: RE: Central leukoma, corneal szarring, major corneal de-epithelialization at 3 & 9 c/clock, moderate papiliae (Image 1)  $\bigcirc$ LE: Staining inferior limbus and inferior conjunctiva, moderate papillae Intraocular pressure: RE: 14 mmHg LE: 14 mmHg Note: After a detailed analysis of the clinical history, it was explained to the patient that one of the best options was a scleral lens, mainly to preserve the corneal surface. However, the patient Corneal topography: (Table 1) Both Eyes: Large protrucion and corneal limits. The pattern acea, IS, SAI, SBI indices outside normal limits. The pattern es with Nipple keratoconus Fitting process: INITIAL TRIAL LENS (Table 2) The selection of the initial lens is made b

### on the ROSE K fitting guide. RE: 5.70 / +17.00 / 8.3 Lift Standard ROSE K2 NC LE: 6.70 / +7.00 / 8.6 Lift Standard ROSE K2 NC

Eye Isilital Parameters Fluorogram Description Remarks Final Fluorogram Final Parameter Altre 15 min - Careta R Constructuration with adjet. Where its clearchings interacting 18, 26 min. Where its clearching with adjet to the clearching of the clearching in th 3C: 5.70 PWR: -17.00 Diam: 8.3 Lift Standard ROSE K2 NC licht After 10 min BC: 6.70 PWR: -7.00 Diam: 8.6 Lift Standard After 10 min Central Fitting: Close up at co Peripheral Fitting: Inadequate Diameter: Optimal Position: Interpalpebral Movement: Poor

- CONDUCT Fitting ROSE K2 NC design contact lenses
- These data correspond to a follow-up of 6 months of fitting. Office visits were every month to follow up the corneal lesion, ocular surface, tolerance, and handling.

steep. 25	verocal mendian, a tonc peripheral curve is suggested.	$(\cdot)$	TP: 0.8 Lift Standard ROSE K2 NC
meal apex , closed 360° 20	To improve the 360 <sup>o</sup> edge it is necessary to add a generalized edge lift, additionally it is necessary to tighten the BC to allow a better central tear exchange.		BC: 6.60 PWR: -6.25 Diam: 8.6 Lift +1.50 ROSE K2 NC
COI	NTACT LENS CARE		

The following was recomm Fitting RDSE IC NC Geage contact lenses
 Freeservation for exclust anti-degree dops every 13 hts for 2 months
 I Haird variant with roaps and water when bandling the lense.
 I. Haird variant with roaps and water when bandling the lense.
 I. Haird variant with roaps and water when bandling the lense.
 I. Haird variant with roaps and water when bandling the lense.
 I. Haird variant with roaps and water when bandling the lense.
 I. Haird variant water
 Protection for daily cleaning.
 Use multipurpose solution for daily cleaning.

tolerance, and handling. Vank hierses, RE-CZS JE 12:020 Daly varging time: between 12:43 hrs Still lamp: both yeas who insest centered with interpalpebral postton, in the central fitting the first apical couchs is observed, the purpheral fittings deplate 300° gives and statement to a schema between the post of the schema between the schema between

## dramatically decreased vision she wants to try CLs now. Clinical History: Linical History: Keratometry: RE: 9.98/8.81 x 32.2 LE: 12.55/9.48 x 154 Refraction: RE: -5.00 -4.00 x 45 VA 20/80 LE: -1.00 -7.00 x 125 VA 20/60 Slit Lamp: Both eyes: Radial and arcuate scars with staining over some incisions, corneal edema, moderate conjunctival hyperemia, loss of palpebral architecture and melbomian gland dysfunction. (Image 2) Right and meteominin gland dydurction, Image 2) Metraceliar preserve. (2) 2011 RE: The stall map shows a currenture in the lower quadrant of the comes, and an abung filtering in the upper quadrant of the comes. Increased contrast litclices both tong interpretation of graphic states and the states of the comes to the state of the comes increased contrast litclices both tong interpretation of graphic states and the states of the comes of the states of the states of the states of the states of the periodic states of the states of the states of the states of the states periodic states of the periodic states of the periodic states of the Let Co-management: Ling and Pertication pack-impact map. Glascoma specialities due to high intrascular pressure (possible glascoma). Children a detailed subject of the chical blachy, tests repeated and the characteristic subject of glascoma subchildren (source and subject of the excellent leads the characteristic). The specialities authorizes the fitting of grandmap and the subject of the special particular to the speci amp and Pentacam pachymetric map. Glaucoma specialist due to high intraocular pressure (possible glaucoma). Fitting process: INITIAL TRIAL LENS (Table 4) The selection of the Initial lens is made based on the ROSE K2 PG fitting guide RE: 9.00 / +2.00 / 10.4 Lift Standard ROSE K2 PG LE: 9.00 / +2.00 / 10.4 Lift Standard ROSE K2 PG Eye Initial Fluorogram Description Remarks Final Fluorogram Central fit: Central build-papersharms in me hypersharms in the performance of the second performance is about the second hypersharm is about the second terration thereal below the second terration terration the second terration terratio Diam: 10.4 Lift Standard EC: 8.90 PWR: -5.00 Diam: 85.4 LHS Standard ROSE K2 PG

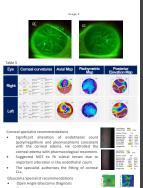
Patient Information: Female 55 years old General Nistory: Allergies Ouclar Mistory: Allergies Reason for consultation: Many years ago, the was told the best correction for her rege: were CLS, but hed id not wart to wart them. However, Because of her

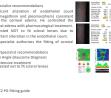




FINAL EVALUATION OF THE FITTING

Files Calculation (CALC) File (CALC) (CAL





CONTACT LENS CARE CONTACT LBSS CARE
Control Test Sector Commended:
L Hand washing with scap and water when handling
Control Test Sector Commended:
L Hand washing with scap and water when handling
Control Test Sector Commended:
L Use multipurpose solution for daily classification
Sector Commended
Commend

### Conclusion:

Sometimes the most common contact lens choice in the course of irregular cornea management is not the best option. A detailed analysis of medical history, special examinations and co-management with specialists make the difference in successful specialty lens choice, fitting and follow-up.