Case 1

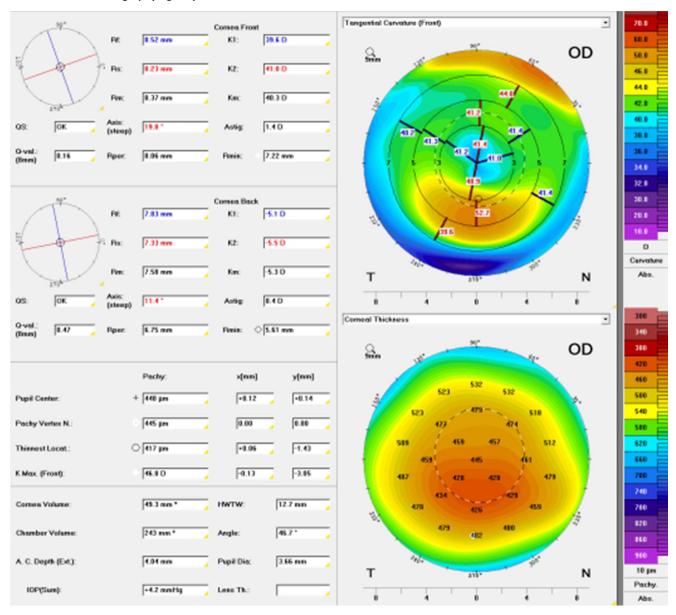
27-year-old, Male, Police Officer

Date Clinical details Description	
Sept 2020 Reason for appointment + Ocular History	 Wants to discuss optical options for his 'lazy eye' Has recently changed careers into the Police force and requires good vision out of both eyes. Currently wearing single vision distance spectacles.
Unaided vision R 6/30=, L 6/24-	
Spectacle refraction R -2.75 / -1.50 x 114 (6/4=) L +1.00/ -1.75 x 93 (6/15+)	
Pachymetry R 417 microns, L 357 microns	
Corneal tomography See over	
Posterior Ocular health Unremarkable	
Management • Discussed	 keratoconus and its natural history Discussed vision correction options. Soft contact lens for right eye. Scleral lens for left eye.

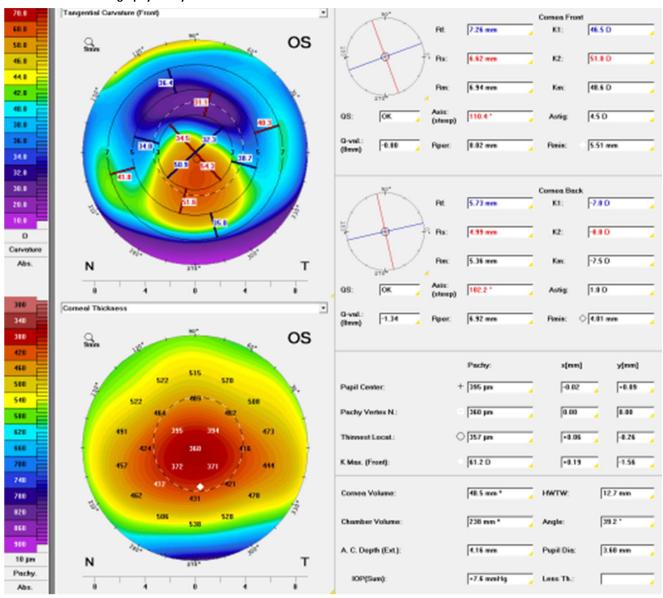
Discussion questions

- 1. How would you describe this patient's keratoconus?
- 2. What refractive options would be available to this patient?
- 3. What other clinical investigations would you carry out for this patient?
- 4. Have you seen any patients similar to this case in your own clinical experience?
- 5. What trial contact lenses would you order?

Corneal tomography right eye



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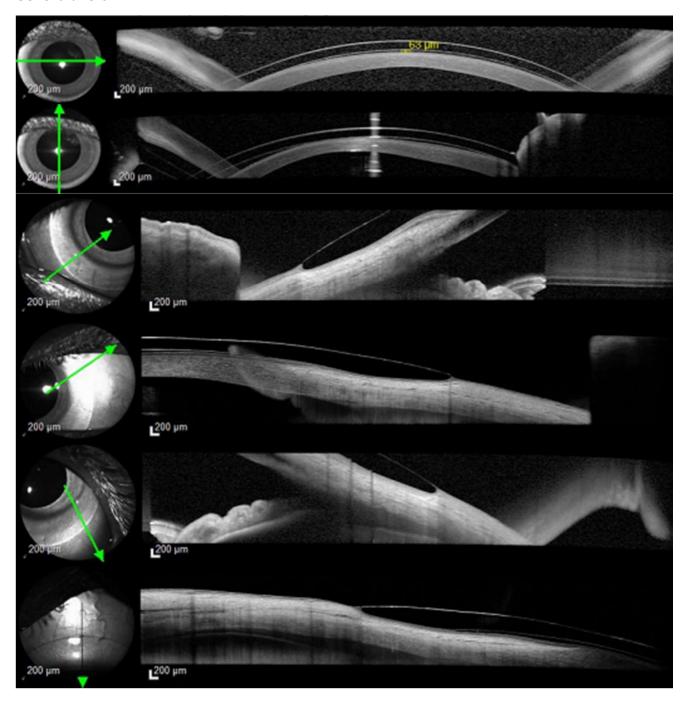


Date Clinical details Description		
Sept 2020 Reason for appointment +	a Salaral lang fitting for left ava	
Ocular History	Scleral lens fitting for left eye	
Trial lens Right eye: Acuvue Moist		
	-3.75/-0.75x110	
	Left eye: EyeSpace trial lens 2	
	7.90/ 3900/ 39/ 17.50 (flat axis)	
	7.90/ 4050/ 40/ 17.50 (steep axis)	
	BVP = -2.00D	
	Note: lens parameters written in following notation	
	BOZR (mm)/ SAG@15mm (microns)/ SLZ (^p)/ Diameter (mm)	
Refraction over lens on	R plano (6/5)	
	L +1.25DS (6/5=)	
eye		
OCT of trial lens • See o	ver	

Discussion questions:

- 1. How do you go about selecting a scleral trial lens?
- 2. Which parameters of the trial lens do you need to assess to calculate the final lens?
- 3. What would you adjust from the trial lens fit?

OCT of trial lens



Date Clinical details Description

Oct 2020 Reason for appointment +
Ocular History

Scleral lens delivery

Lens parameters Left lens:

7.6/ 4150/ 38/ 17.5

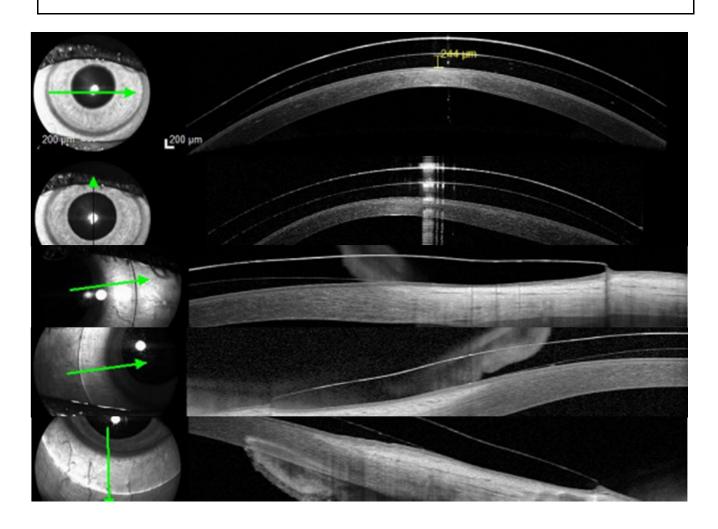
BVP = -3.00D

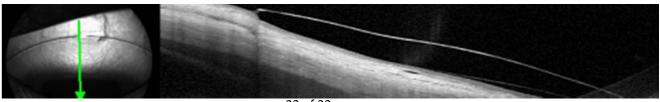
Note: lens parameters written in following notation

BOZR (mm)/ SAG@15mm (microns)/ SLZ (P)/ Diameter (mm)

Refraction over lens L +0.25/-0.50 x 15 (6/5)

OCT of lens See below





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