

WEBINAR QUESTIONS & ANSWERS

Title: Profilometry and Speciality Lens Fitting

Presenter: Karin Brown-Balvert and Ian Sexton

- 1 How much is a typical profilometer?
The one discussed in the case report is £20,900, there are devices available that do something similar, but for single shot this would be in the region of £60,000 plus I believe
- 2 Any tips on choosing a starting Sag when fitting a patient empirically?
I will leave this one for Ian, my notes say 4000 for 'normalish', 4600-4800 moderate cones and irregularities 5000 for steep cone
I Agree a 4000 micron sag for non-ectatic cornea is a good starting point
- 3 How many months would you sign off for once you are happy with the lens?
Ian ? Follow up every 6 to 12 months depending on pathology
For Px with no ectasia this could be extended to 9 or 12 months
- 4 How much is the moulding technique for scleral lenses fitting and manufacturing used these days (as we were taught in the training in the 1980's!)
I would say most is now lath cut. Ian?
All lenses are lathe cut but I think this refers to the fitting process, there are very few lenses made by the moulding technique, all mini-sclerals are fitted from fitting sets
- 5 What over refraction do you expect when a scleral fits well? Does it agree with spectacle refraction? After lasik pxs?
Often it will be different, as there will be tear fluid in the clearance, but VA's are often much better with sclerals than specs
I agree, spec Rx is no indicator of scleral Rx
- 6 Scope of practice for Mini scleral fitting - is CL honours required or can FBDO CL ECPs and Optoms fit in high street practice with appropriate manufacturer training and Profilometry?
FBDO CL's can fit. With the right equipment and knowledge. Often it will require longer appointments
Training is available from all manufactures on lens fitting
- 7 Thank you for the great information - very helpful.
How long do you normally allow for the settling of a semi scleral trial lens, considering central clearance and limbal clearance etc? Hours? Minutes?
At least 1 hour, as long as possible. Manufactures advise, if there is enough clearance and no blanching, leave re-fitting for a few weeks
- 8 Does the scleral lens settle quicker as the patient wears more often?
I would say yes, as the sclera will settle to the lens
- 9 If you can design freeform lenses, when would you choose not to - why wouldn't you always design in freeform?
If you can, then yes why not. There could be a cost issue as often they are a little more expensive. But the future is Freeform

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10 What VA did the 25 yo keratoconus px get with those lenses?

VA 6/7.5

11 Would AI be an advantage in the use of fitting any type of lens and be a vast improvement on profilometry and how would this work?

My opinion, for the fit itself possibly not, for the productions, measuring and certain features, yes