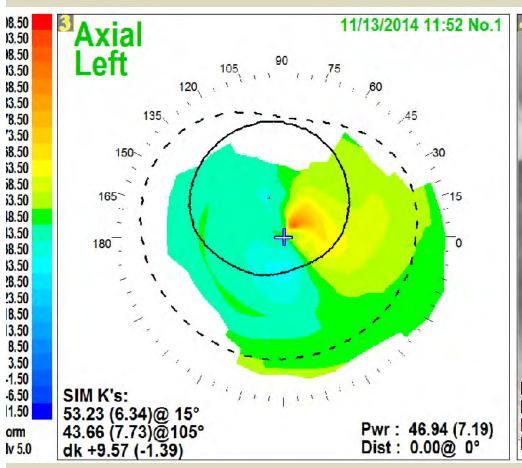
I have Keratoconus and need a corneal transplant. How quickly can I start to see?

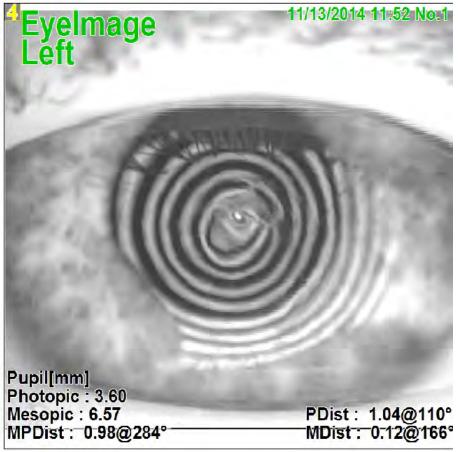
DALK – few weeks (sometimes less!)

• PK – years (maybe) ⊗

Case 1: 31 yo Male lives in Cleveland

Left Eye
Left: severe keratoconus/central cornea scar VA 20/300
Right: had a Penetrating Keratoplasty (PK) done in
Cleveland in 2004 – doesn't see well out of that eye.





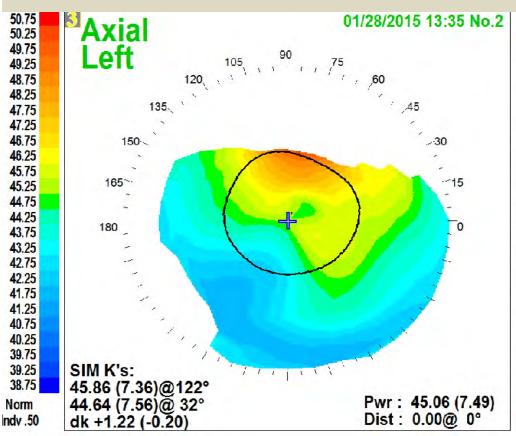
Left Eye

Very Early Visual Rehabilitation:

Large Diameter DALK (10mm dia.)

8 days post-op: -9.0 20/30

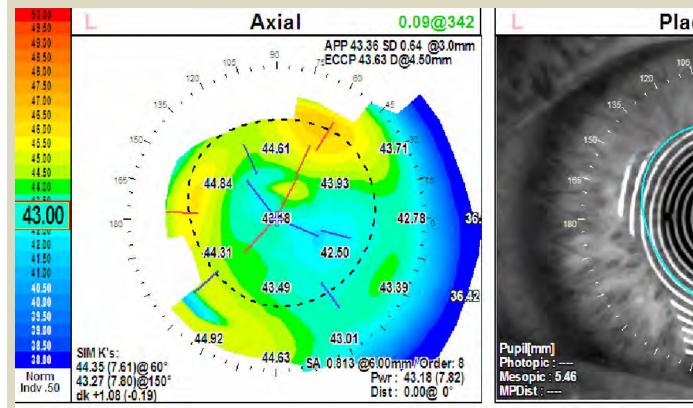
3 wks post-op: fit with -8.25 soft contact lens 20/25

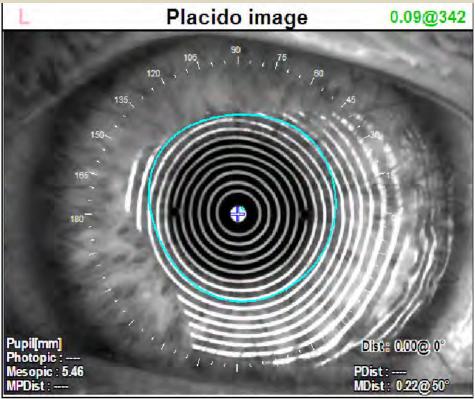




Left Eye

Large Diameter DALK (10mm dia) 4 yrs post-op: -10.0 + 1.0 x 60 20/25 running suture left in place (very low astigmatism)

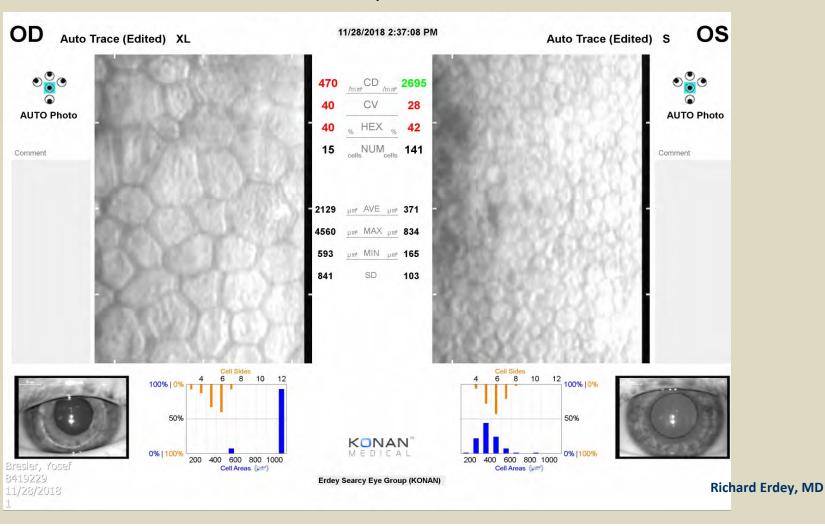




now 35yo

OD: PK 15 yrs ago OS: DALK 4yrs ago

OD: low endothelial cell ct due to donor cell decay OS: normal cell count

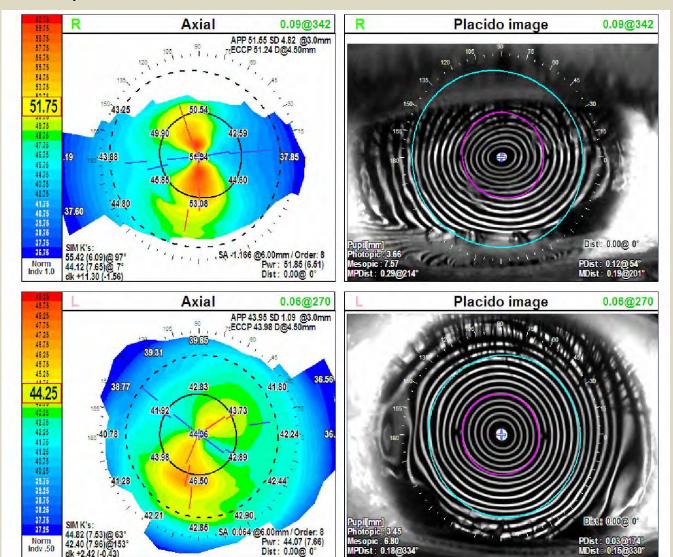


Case 2: 32yo female severe Keratoconus OD>OS RGP contact lens intolerant

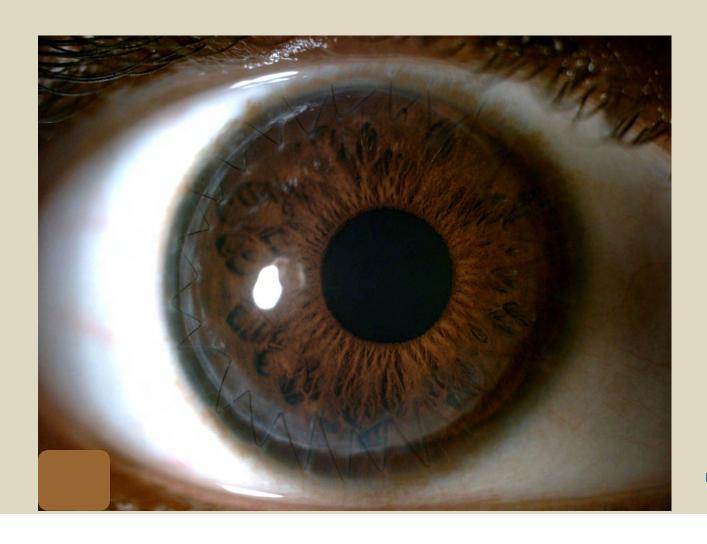
OD, Disabled with medical insurance "challenges"

OD: -13.50+8.0x100 20/200

OS: -2.0+2.5x57 20/30



Oct 2018: DALK 9.5mm



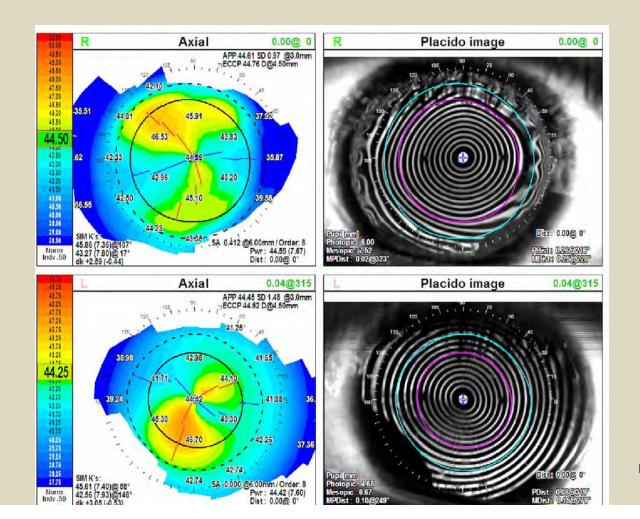
Very early visual rehabilitation:

1 wk. post op OD: -5.25+2.25x140 20/40

3 wks. post-op OD: -4.75+1.75x140 20/25 dispensed RX

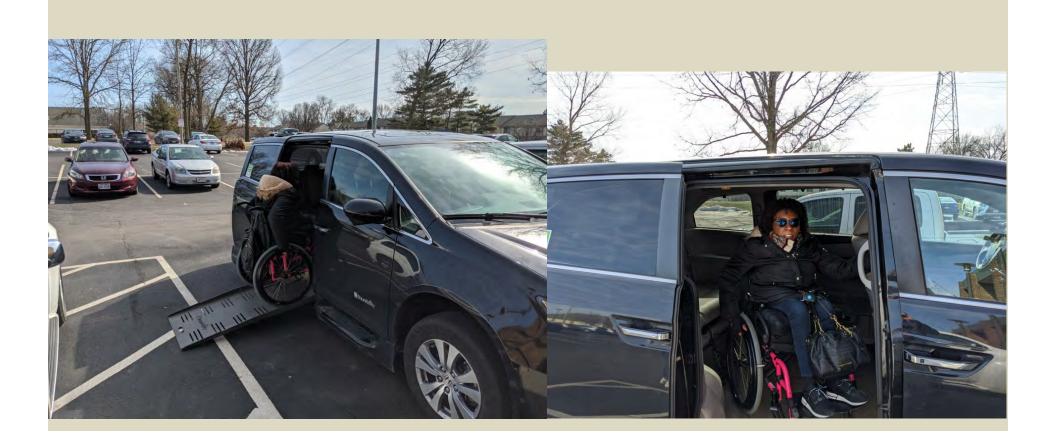
OS: -2.0+2.5x57 20/30

I year post op same RX OD/OS

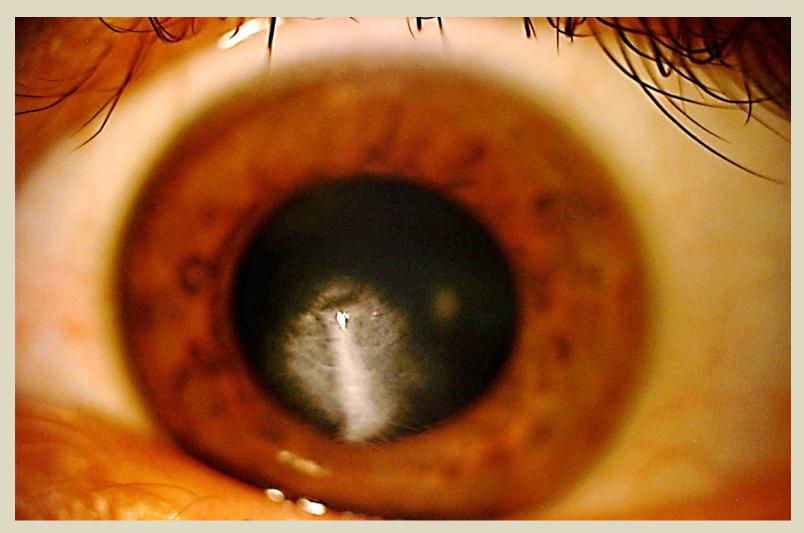




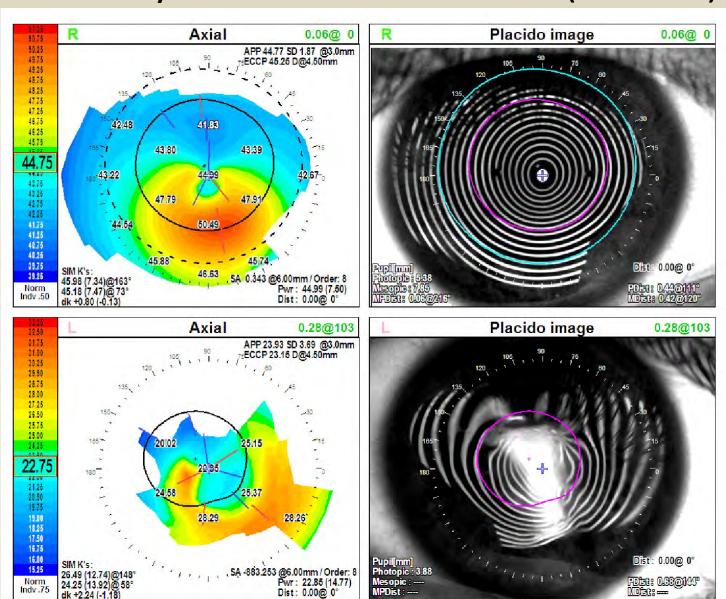
Can see much better, able to drive, more independent, can work!!



Case 3: Left Eye: 27 yo with Severe Keratoconus

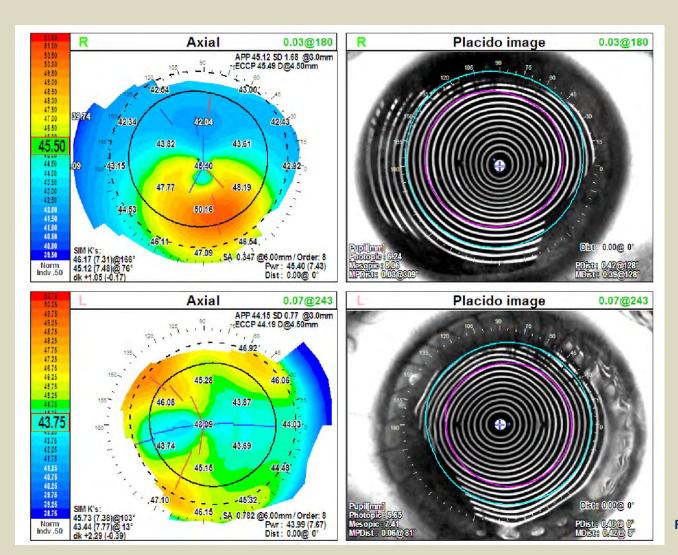


Right eye: Mild Keratoconus (Top) Left eye: Severe Keratoconus (Bottom)

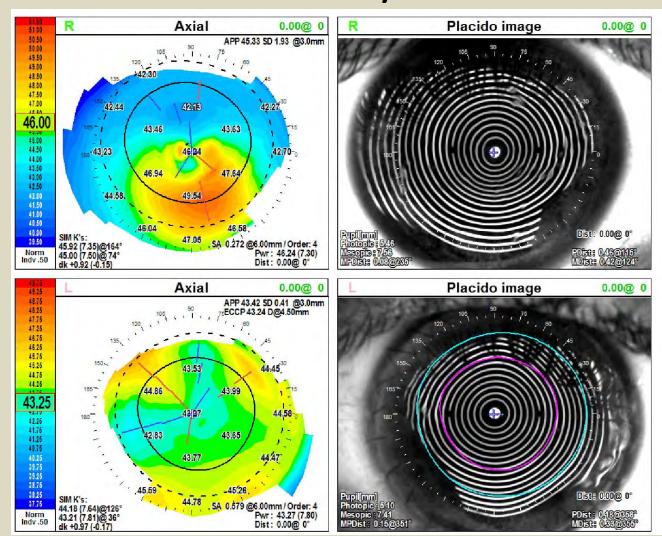


CA 60 0 000

Left eye (Bottom): DALK 10.0mm 2 mos later: Uncorrected VA 20/40

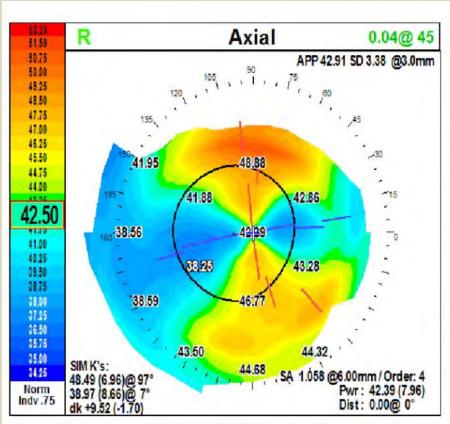


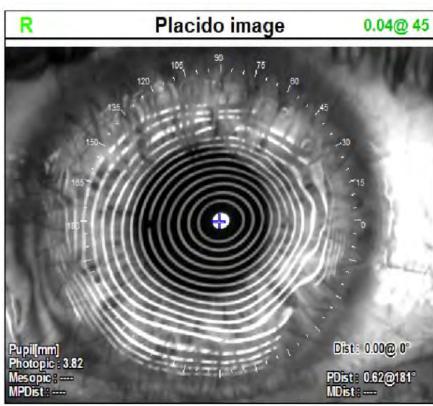
Left eye (Bottom): DALK 10.0mm 1yr later: Uncorrected VA 20/25 -0.75 20/20

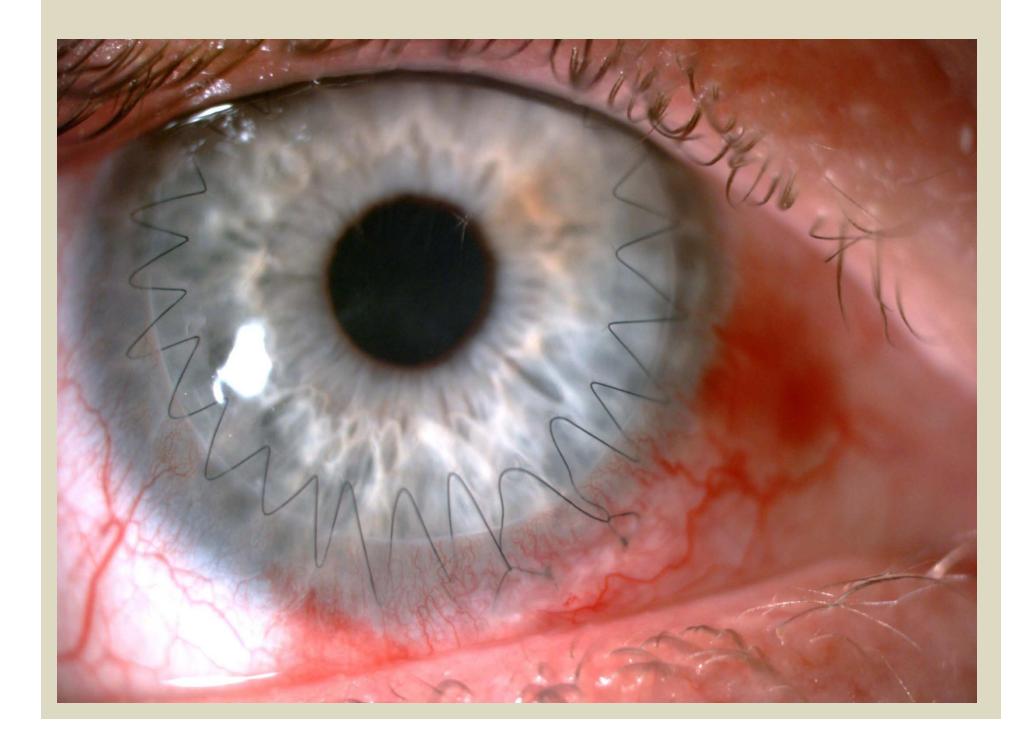


Is DALK Adjustable in early post-op period?

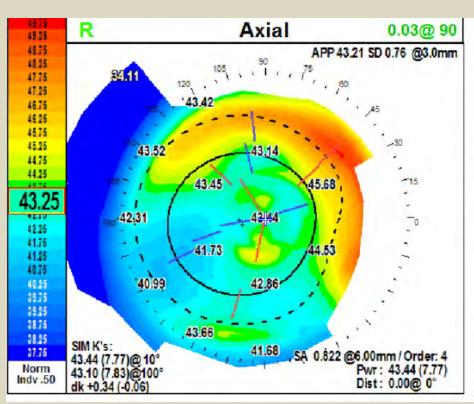
Case 4: 18yo Keratoconus 5 wks aft DALK

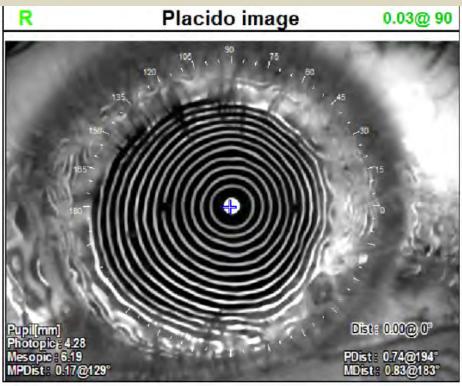






2 wks after running suture adjustment: Uncorrected VA 20/40 +0.5+0.75x78 20/30

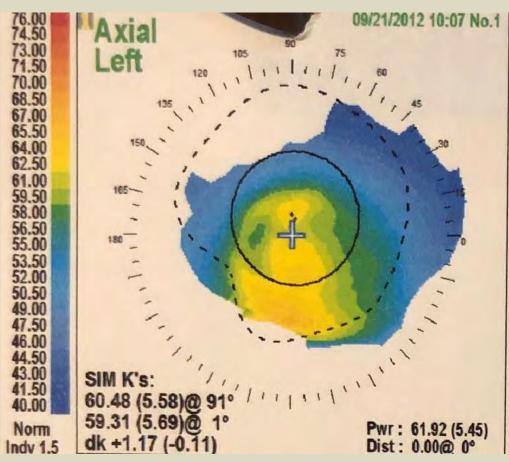




Keratoconus/Dalk/Long term stability?

CASE 5

Dec. 2012 23yo male Keratoconus -19.0+6.25x93 20/300 DALK 9.5mm pre-descemets dissection



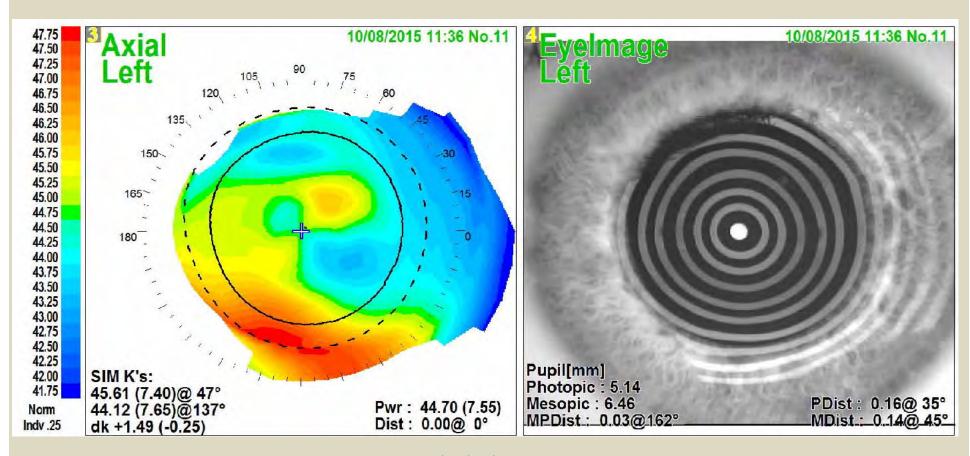


Case 5

Aug 2015 (2.7yrs aft DALK)

Rx: -2.75+1.0x53 20/25

removed running corneal suture

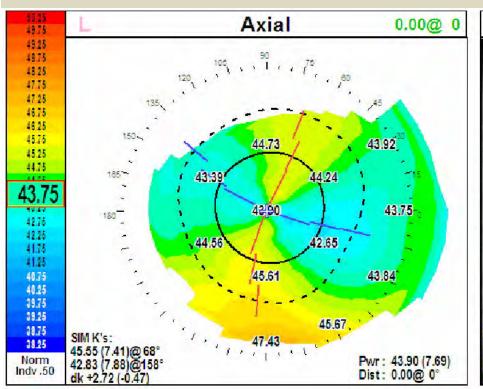


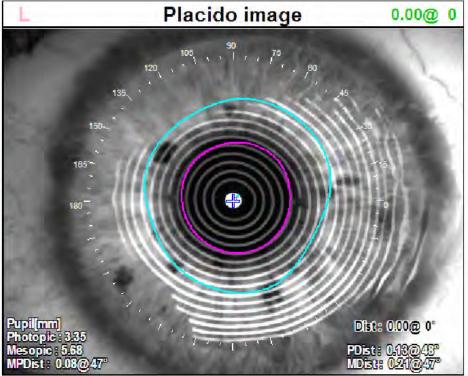
Left Eye

Case 5

Apr. 2017 (4.5yrs aft DALK, 1.5yrs aft suture removal)

Rx: -3.75+2.5x67 20/20

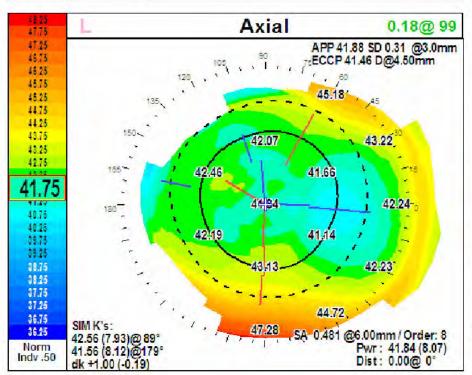


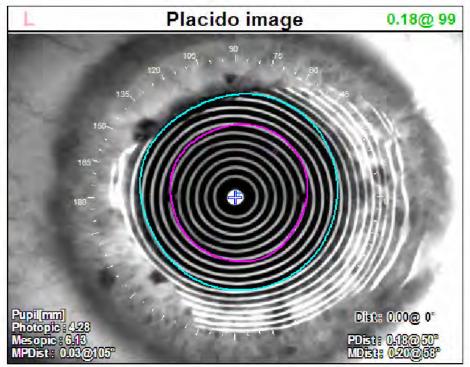


Left Eye

Case 5

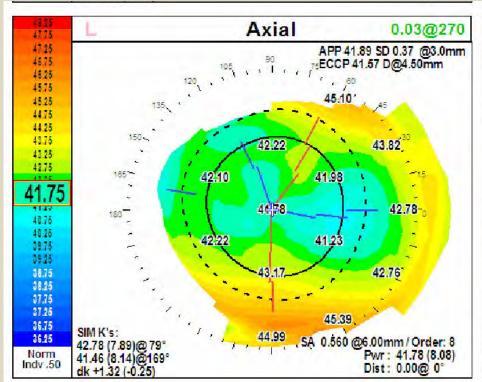
May 2017 LASIK (4.5yrs aft DALK)
June 2017 Rx: -0.5+0.5x150 20/30 (2wks aft LASIK)

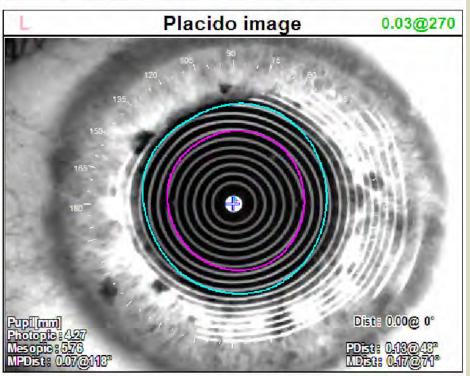




Case 5

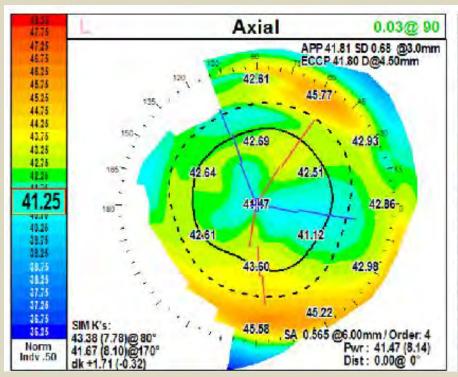
Oct. 2018 (6yrs. aft DALK, 1.5yrs aft LASIK)
Uncorrected VA 20/20-1 -1+0.5x135 20/20

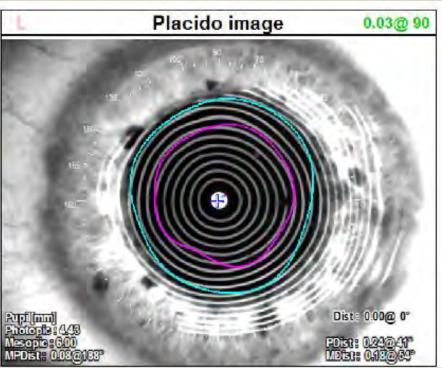




Case 5

Now age 33
March 2023 (10yrs. aft DALK, 6yrs aft LASIK)
Uncorrected VA 20/25 -1+0.5x135 20/20

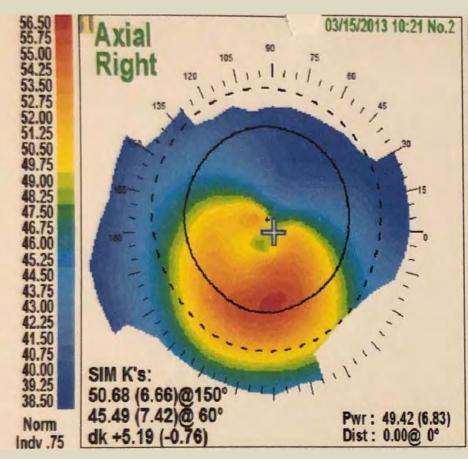




What about his right eye?

Case 5 Right Eye

March 2013 24 yo male Keratoconus -6.0+3.75x133 20/40





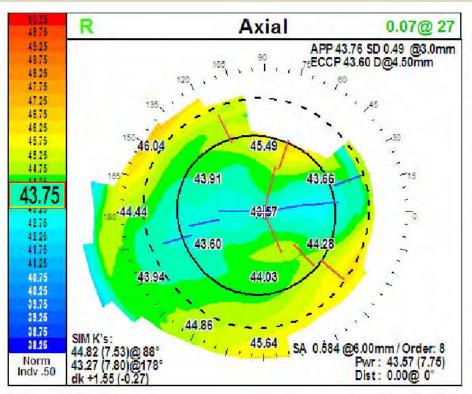
Case 5

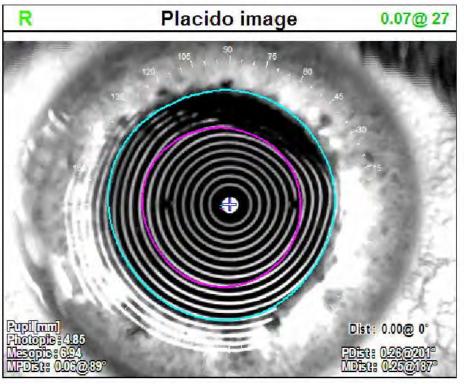
Right Eye

Dec. 2013 DALK 9.5mm - big bubble

Feb. 2016 (2yrs aft DALK): remove running cornea suture

Mar. 2016 (6wks aft suture removal) : -2.0+1.5x85 20/20





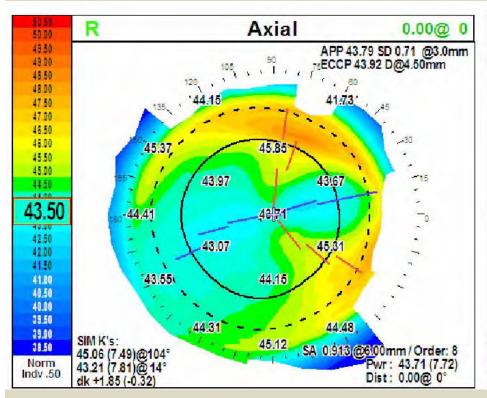
Case 5

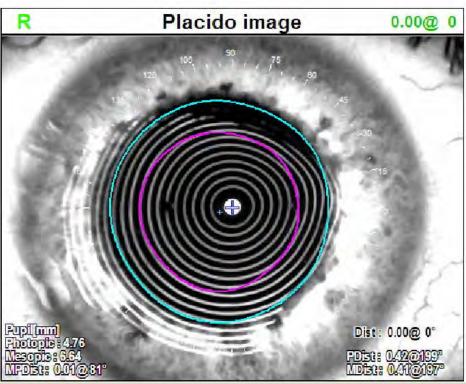
Feb. 2018 (4yrs aft DALK - 2yrs aft suture removal)

Right Eye

-2.5+2.25x100 20/20

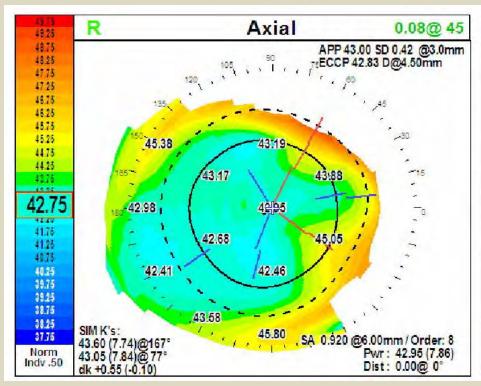
Feb. 2018 OD: LASIK

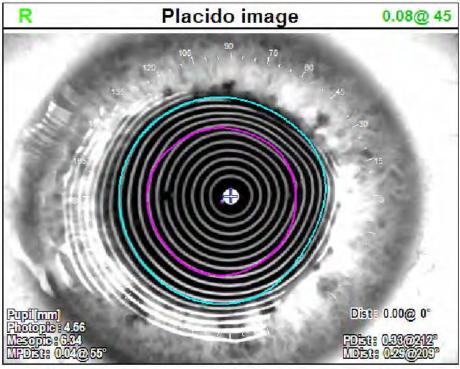




Case 5 Right Eye

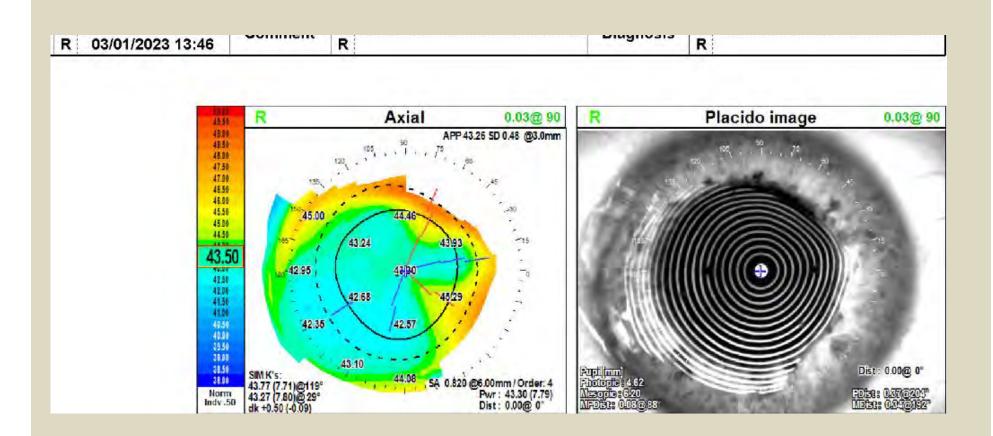
Oct 2018 29yo (5yrs aft DALK/1yr aft LASIK) Uncorrected VA 20/25 -0.75 20/20





Case 5 Right Eye

March 2023 now 33yo (9.5yrs aft DALK/5yrs aft LASIK,) Uncorrected VA 20/20 -0.50 20/20

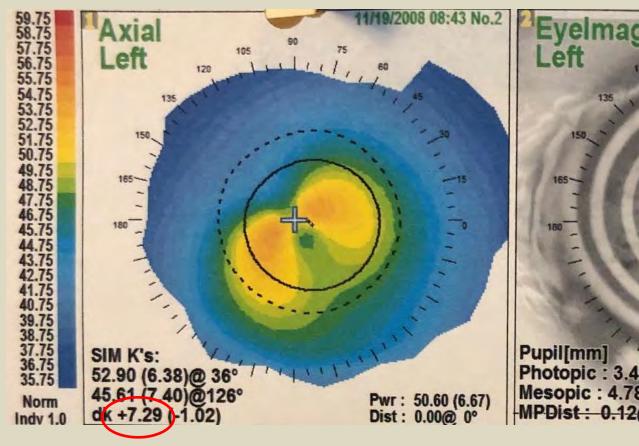


Case 6

64yo Keratoconus and Cataract

-4.75+4.50x4 20/60-

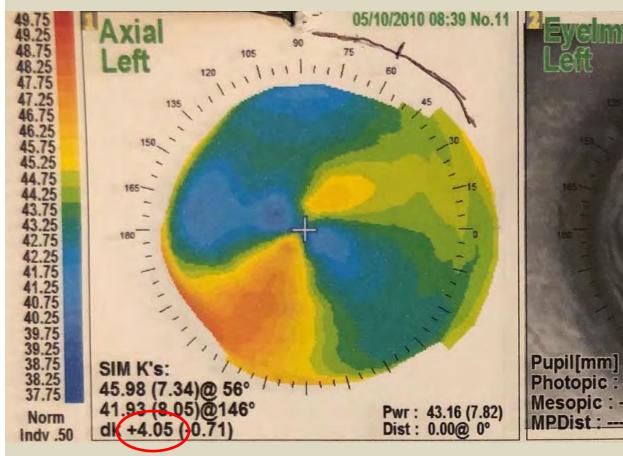
8/25/2009 DALK 8.5mm predescemets dissection





Case 6

Mar. 2010 (8mos aft DALK) Running Cornea Suture Out May 2010 Cataract Extraction with long (7mm) Scleral tunnel incision x 60 (on steep axis) and Staar AQ2010V 18.5 IOL





The Incision



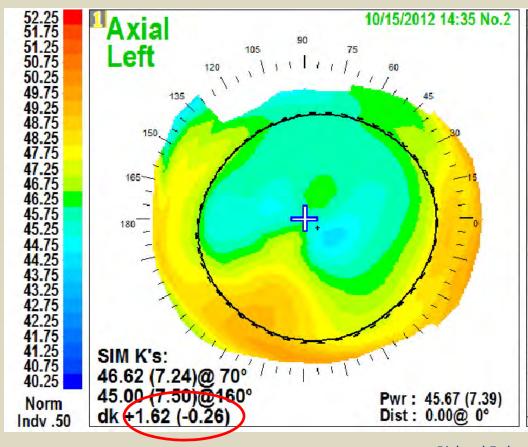
3-7. **Shelf of the incision.** The shelf portion of the incision holds the iris back and helps prevent iris prolapse.

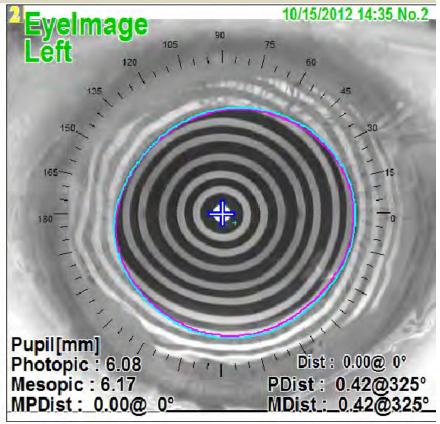
Case 6

Left Eye

Oct. 2012

3yrs aft DALK, 2yrs aft Cat Ext monofocal IOL long scleral tunnel steep axis -3.5+0.50 x 22 20/25-2 (note low topo cyl 1.62 – circled in red)





Case 6
Oct 2018 73 yo (9.5 yrs aft DALK, 8.5yrs aft Cat Ext monofocal IOL w long scleral tunnel on steep axis) -3.5+0.50 x 22 20/25-2 (note: low topo cyl 0.74 – circled in red)

