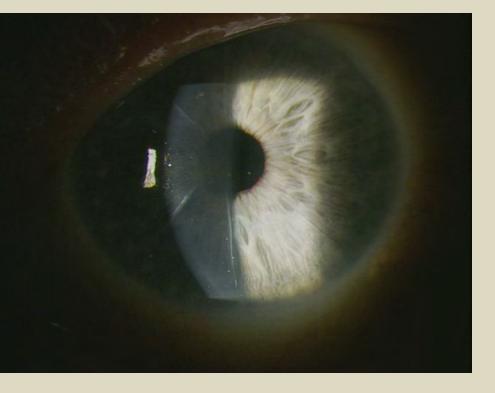
Large Diameter DALK for Corneal Restoration of Radial Keratotomy(RK) - induced corneal ectasia case studies – long term follow up

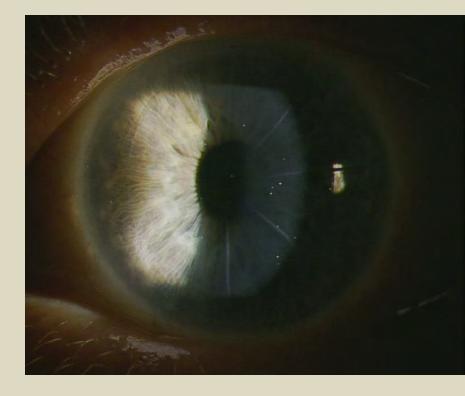
> Richard Erdey, MD Erdey Searcy Eye Group Columbus, OH

Large Diameter DALK for Corneal Restoration of Radial Keratotomy(RK) - induced corneal ectasia case studies – long term follow up

- 13 eyes of 7 patients
- 3mos-16 years follow up

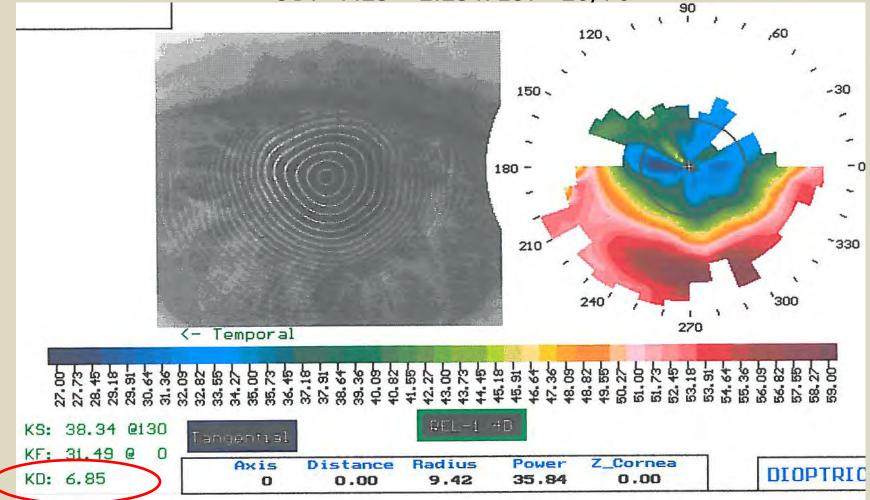
Case #1: 64yo Radial Keratotomy(RK)-induced ectasia, progressive hyperopia both eyes Note: RK corneal scars





Right Eye Pre-op

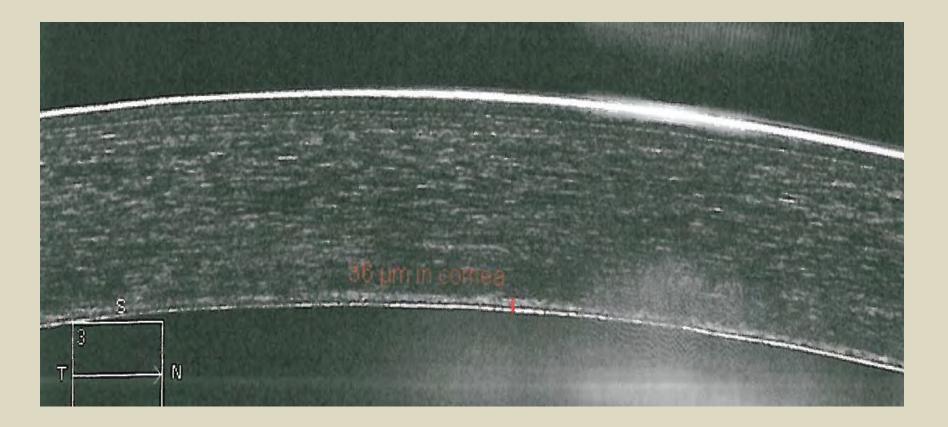
64 year old with cataract and RK-induced cornea ectasia Progressive hyperopia, irregular astigmatism OD: +7.25 + 2.25 x 137 20/70



Right Eye: Running suture removed: 7 mos after DALK



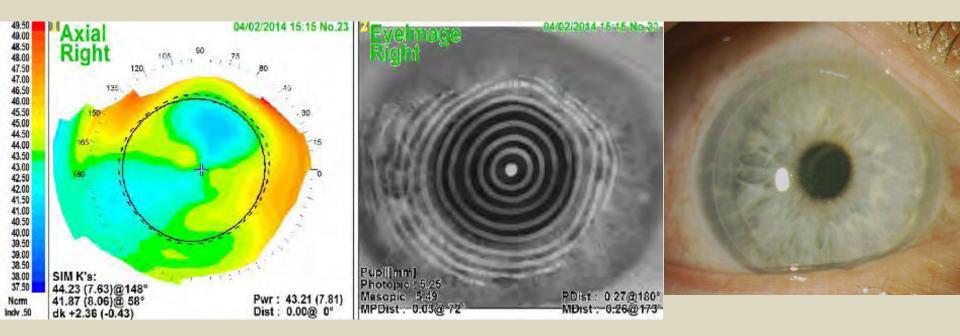
Right Eye: (OCT) 7 mos after DALK OD-manual dissection Note: 36u homogenous residual stromal bed



<u>3 yrs</u> after DALK (10mm diameter) <u>2 yrs</u> after cat extraction with Alcon SN6AT5 IOL Uncorrected Distance VA remains 20/20- plano ! Demonstrates EXCELLENT long-term refractive stability!



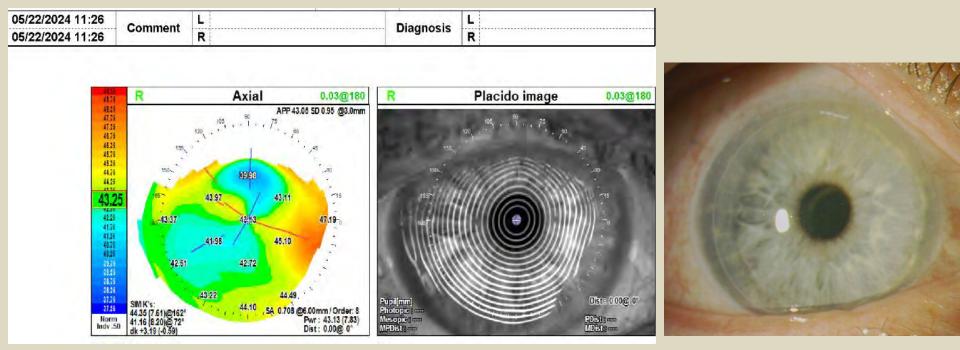
<u>5 yrs</u> after DALK (10mm diameter) 4 <u>yrs</u> after cat extraction with Alcon SN6AT5 IOL Uncorrected Distance VA remains 20/20- plano ! Demonstrates EXCELLENT long-term refractive stability!



<u>8 yrs</u> after DALK (10mm diameter) <u>7 yrs</u> after cat extraction with Alcon SN6AT5 IOL Uncorrected Distance VA remains 20/20- plano ! Demonstrates EXCELLENT long-term refractive stability!

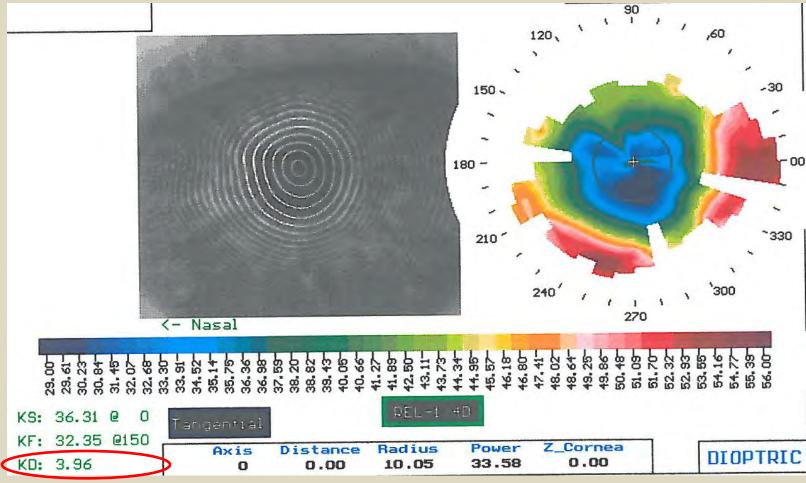


<u>15.5 yrs</u> after DALK (10mm diameter) <u>14.5 yrs</u> after cat extraction with Alcon SN6AT5 IOL Uncorrected Distance VA remains 20/20- plano ! Demonstrates EXCELLENT long-term refractive stability!

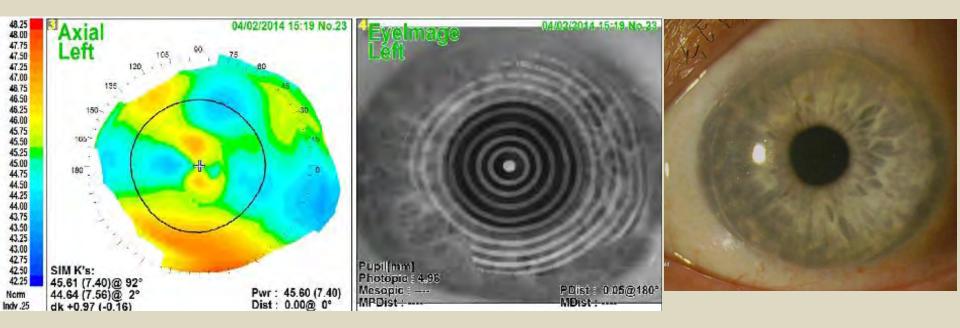


Left Eye

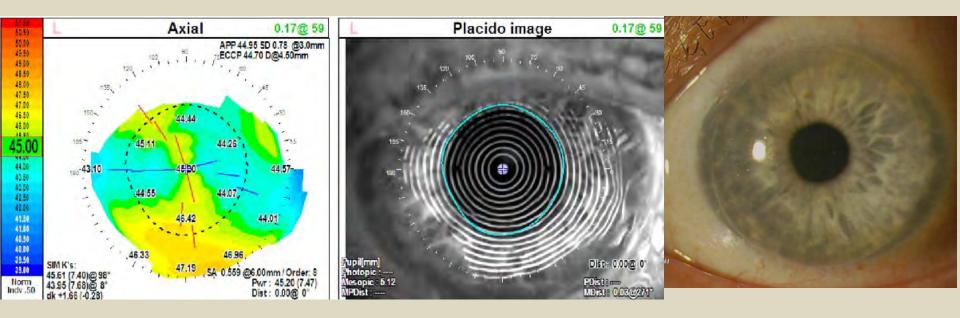
64 year old with cataract and RK-induced cornea ectasia Progressive hyperopia, irregular astigmatism OS: +4.50 + 2.25 x 25 20/30 pre-op



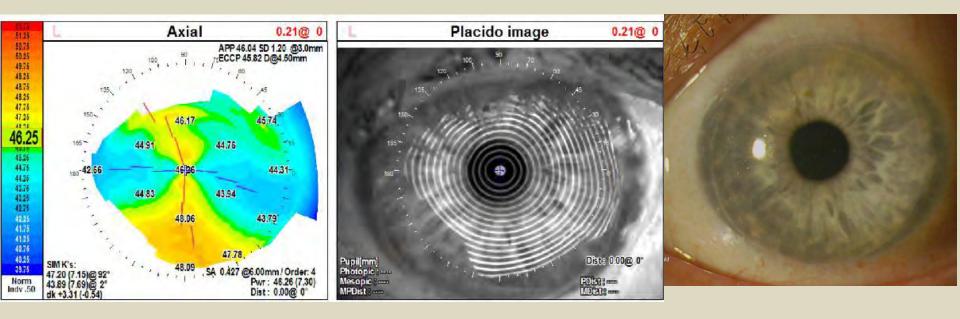
<u>3 yrs</u> after DALK (10mm diameter) <u>2 yrs</u> after cat extraction with Alcon SN6AT4 IOL Uncorrected Distance VA remains 20/20- plano ! Demonstrates EXCELLENT long-term refractive stability!



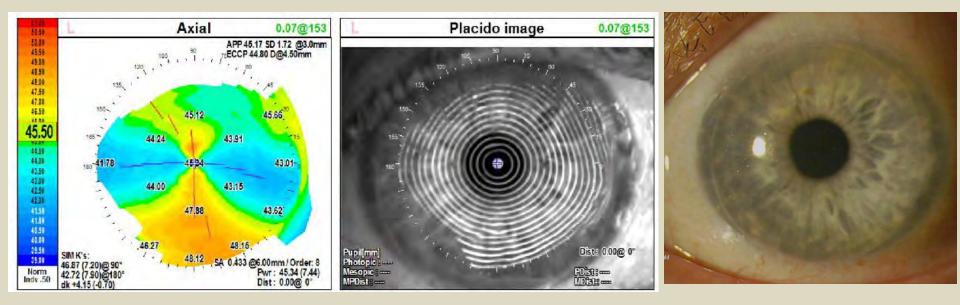
<u>6 yrs</u> after DALK (10mm diameter) <u>5 yrs</u> after cat extraction with Alcon SN6AT4 IOL Uncorrected Distance VA remains 20/20- plano ! Demonstrates EXCELLENT long-term refractive stability!



<u>12 yrs</u> after DALK (10mm diameter) <u>11 yrs</u> after cat extraction with Alcon SN6AT4 IOL Uncorrected Distance VA 20/30-Demonstrates EXCELLENT long-term refractive stability!



<u>13 yrs</u> after DALK (10mm diameter) <u>12 yrs</u> after cat extraction with Alcon SN6AT4 IOL Uncorrected Distance VA 20/30--1.0 +1.75 x 110 20/20 (showing some w-t-r drift at age 80) Demonstrates EXCELLENT long-term refractive stability!



Case # 1: Observations Large diameter DALK OU for bilateral RK ectasia with subsequent suture-out cataract extraction toric IOL OU

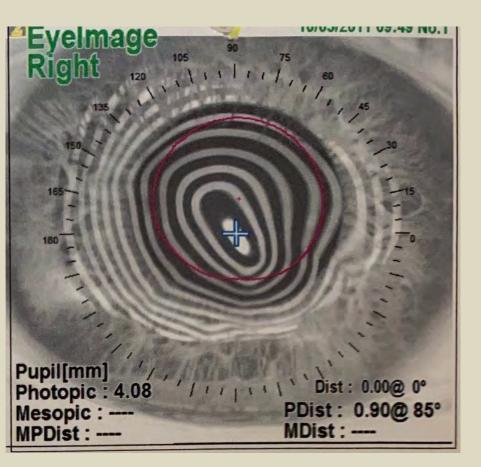
- <u>Fully</u> Restorative OU, exceeding patient expectations.
- Provided excellent uncorrected Visual Acuity OU with documented stability well over a decade.

Case # 1: Patient testimonial (age 80 ... 16 yrs after procedures below at time of this video)

Large diameter DALK OD 2008 OS 2010 for bilateral RK ectasia with subsequent suture-out cataract extraction with toric IOL OU

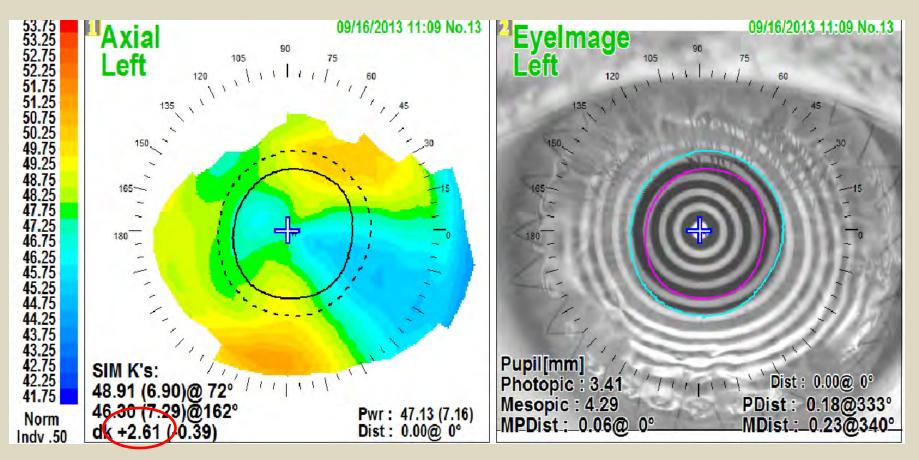
https://youtube.com/shorts/fx52yr79 Do

Case 2: Bilateral severe RK ectasia 64yo OD 20/150 OS 20/200

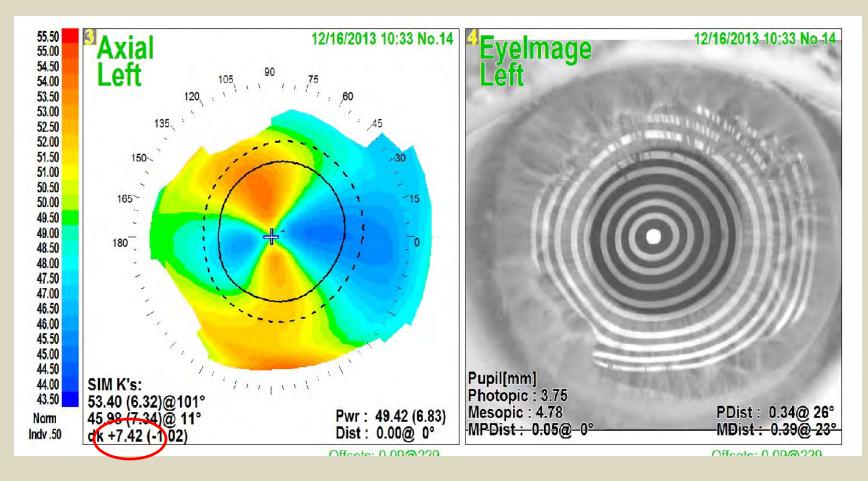




Case 2: Left eye: RK ectasia 4/2012 DALK 9.5mm 5/2012 -8.0 + 2.25 x 70 20/25 (Early optical rehabilitation – fit with toric soft contact lens) 9/2013 topography below



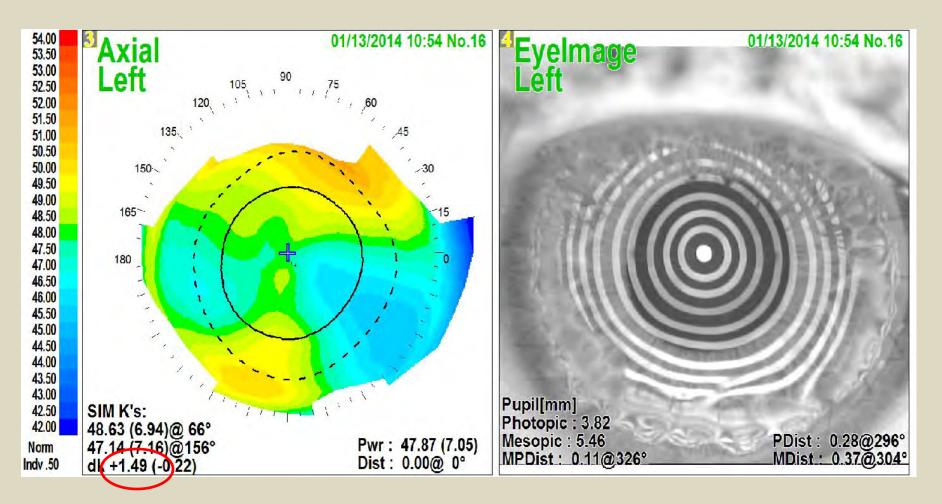
CASE 2: Left Eye: RK ectasia 4/2012 DALK 9.5mm 9/2013 running suture removal 12/2013 note increased cylinder (+7.42D)



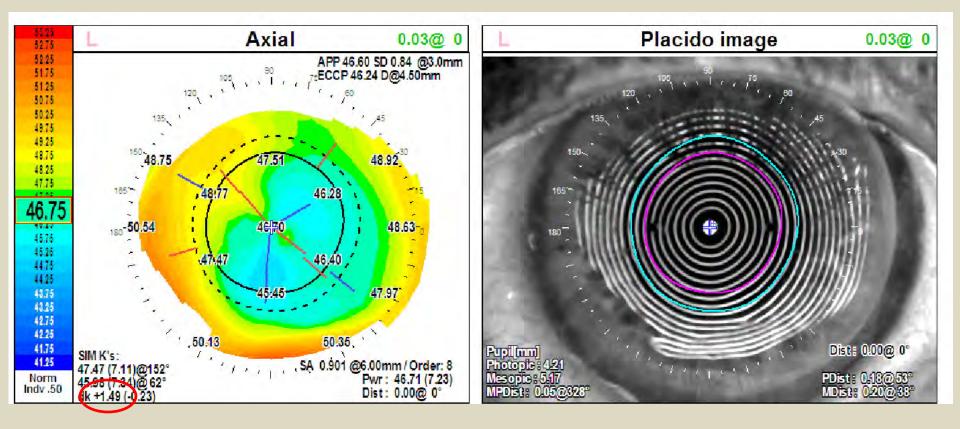
Case 2: Left eye: RK ectasia

4/2012 DALK 9.5mm-

12/2013 replaced running suture fit with soft contact lens 1/2014 cylinder dramatically reduced (+1.49D)

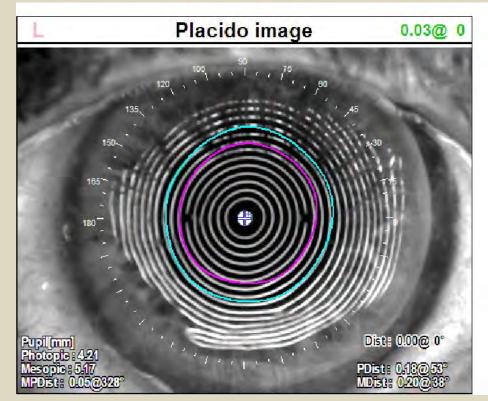


Case 2: Left eye: RK ectasia 4/2012 DALK 9.5mm 12/2013 replaced running suture fit with soft contact lens 6/2019 5 1/2 yrs later...removed running suture 7/2019 -9.25+2.25x20 20/40 (cataract) astig remains 1.49D!



Left eye: Great result!! 8/2019 Cataract Ext with low power toric IOL

- UCVA 20/30
- -0.75+ 0.75 x 50 20/20

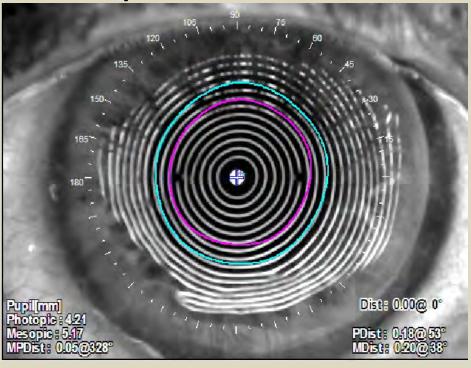


Left eye: 9 yrs after DALK, Great result!! 8/2019 Cataract Ext with low power toric IOL

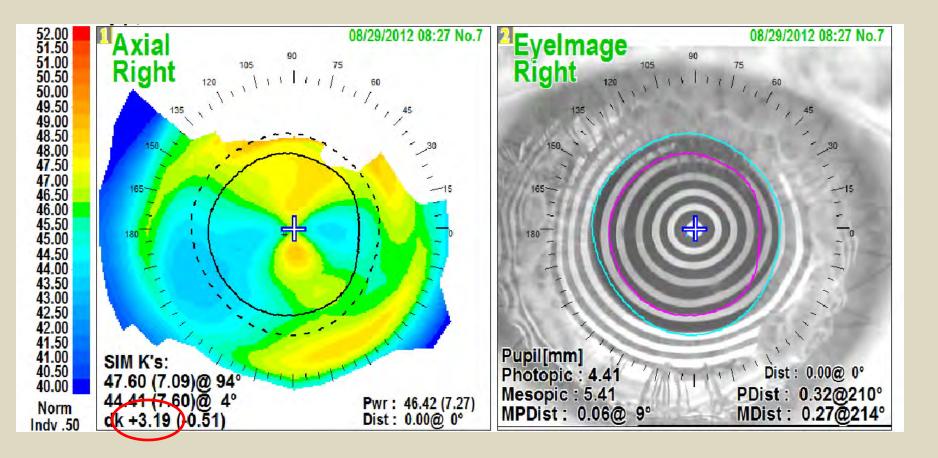
- UCVA 20/30
- -0.75+ 0.75 x 50 20/20
- Pre-op

9 yrs after DALK!

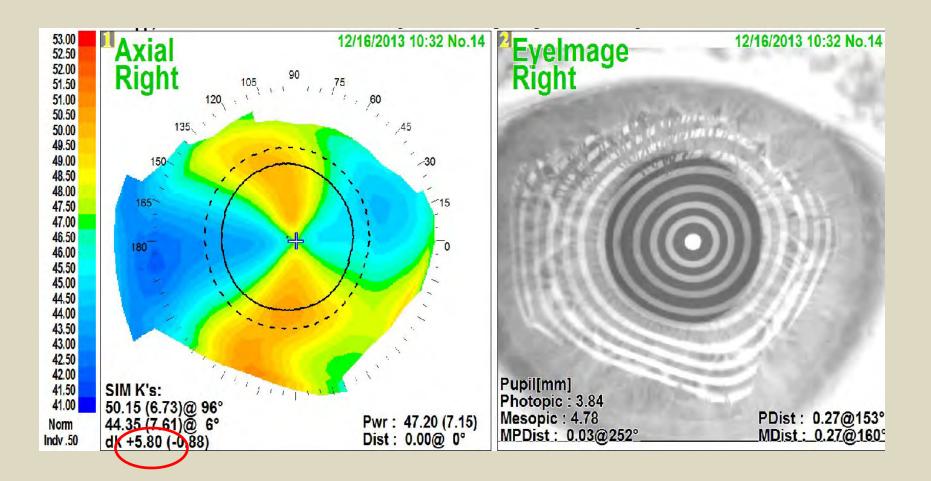




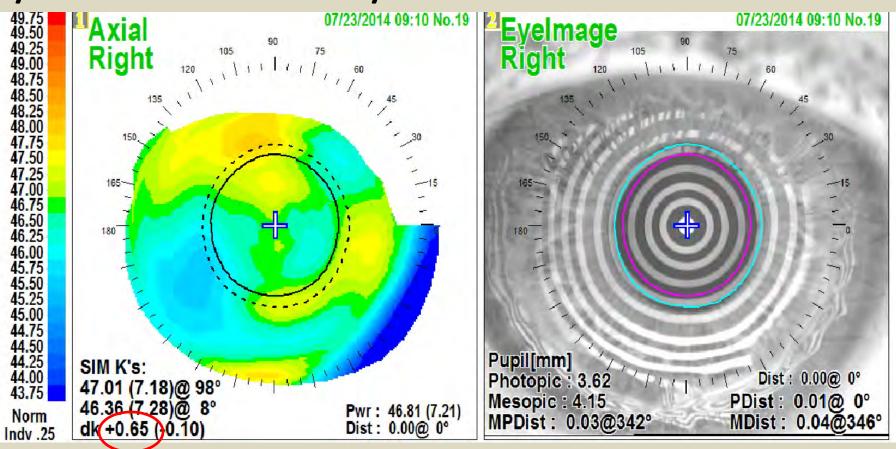
CASE 2: Right eye: RK ectasia 7/2012 DALK 10.0mm 8/2012 -7.75+3.0x93 20/30 (Early optical rehabilitation – fit with toric soft CL)



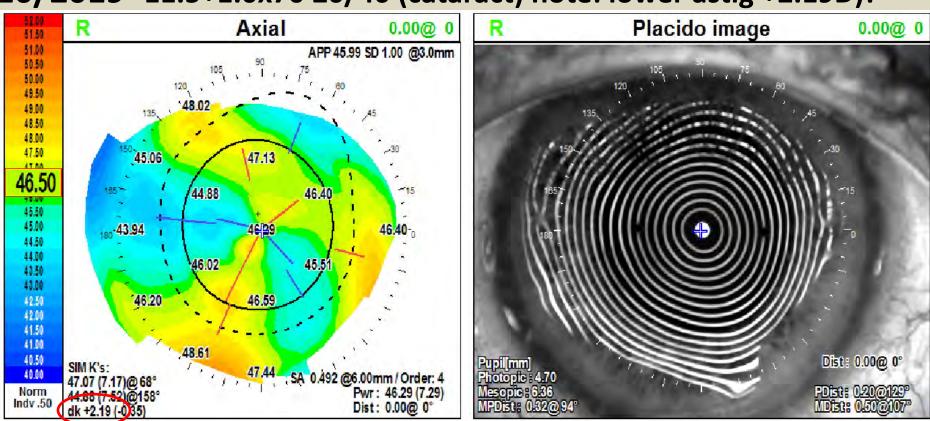
CASE 2: Right eye – RK ectasia 7/17/12 DALK 10.0mm 7/2013 removed running suture - high astig (+5.8D)



CASE 2: Right eye: RK Ectasia 7/17/12 DALK 10.0mm 7/2013 removed running suture - high astigmatism 3/2014 small wedge resection, replace running suture 7/2014 -10+1.75x157 20/40 fit with soft toric contact lens

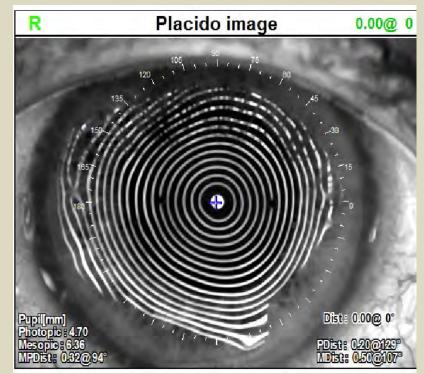


CASE 2: Right eye: RK Ectasia 7/17/12 DALK 10.0mm 7/2013 removed running suture - high astigmatism 3/2014 wedge resection, replace running suture 9/2019 removed running suture (5yrs later) 10/2019 -11.5+1.0x70 20/40 (cataract) note: lower astig +2.19D)!



Right Eye: Happy endings!! 10/2019 Cataract Ext with low power toric IOL OS

- UCVA 20/30
- -0.50+ 0.75 x 20 20/30

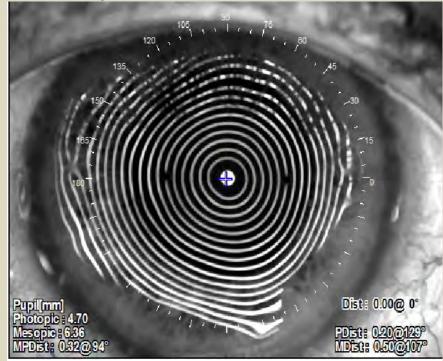


RIGHT eye 9 years after DALK Great result!! 10/2019 Cataract Ext with low power toric IOL OS

- UCVA 20/30
- -0.50+ 0.75 x 20 20/30
- pre-op



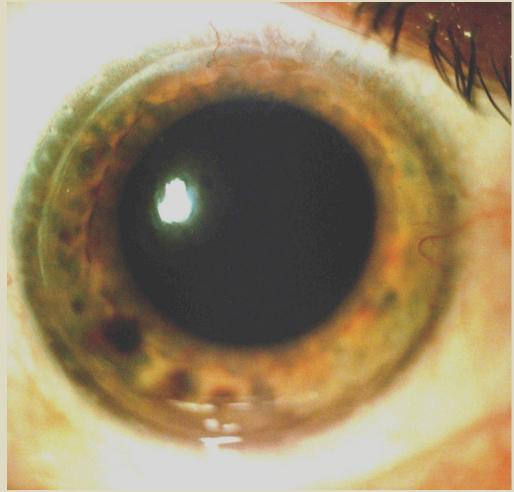
9 yrs after DALK!



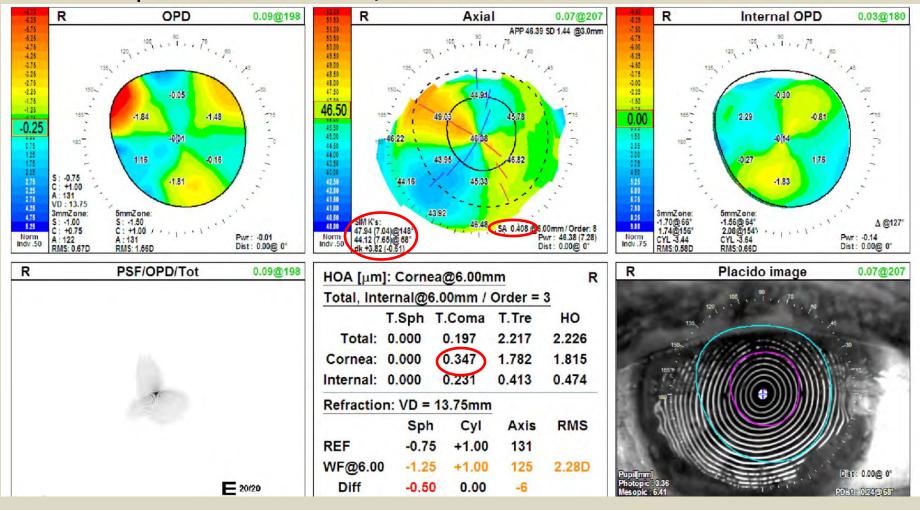
Case 2: Observations: 9 years after DALK OU for severe RK ectasia and subsequent delayed cataract extraction with IOL:

- Both eyes achieved early optical rehabilitation one month after initial DALK
- At one year after DALK, running suture was removed resulting in excessive regular astigmatism. This same experience occurred in each eye. Running suture replacement with adjustment under intraoperative keratometer to achieve approximate sphericity was required OU to neutralize excessive regular astigmatism. Suture was left in place additional 5 years in each eye optically rehabilitated with soft contact lenses during this time.
- After running suture removal the second time OU, years later, minimal Astig/cylinder drift occurred in either eye and cataract extraction with low magnitude toric IOL was used for final "optical rescue" of each eye.
- The result of this and other similar cases, suggests use of a running suture in large diameter DALK can be used to "train" the cornea graft to maintain approximate sphericity not just in the initial post-op period but long term if required. This has NOT been my experience in large diameter PK where the cornea shape typically dramatically relaxes after running suture removal many years later. This is best explained by poor coaptation in PK grafts compared to dramatically better coaptation in DALK grafts!

Case #3: OD 49yo 1989 RK: Bogata, Columbia 2012 RK severe ectasia DALK 10mm Richard Erdey, MD 2016 Cataract Ext with Toric IOL UCVA 20/30



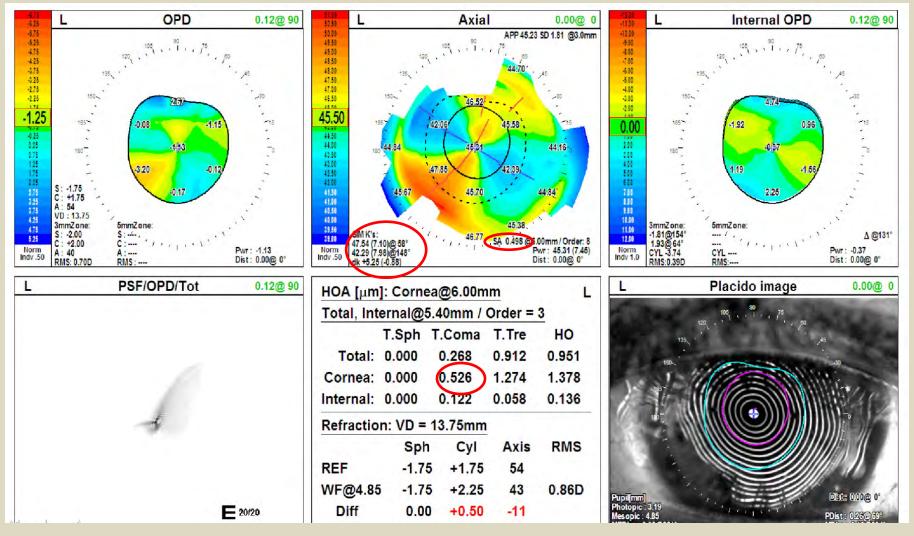
Case #3: OD 1989 RK: Bogata, Columbia 2012 RK ectasia DALK 10mm Richard Erdey, MD 2016 Cataract Ext with Toric IOL UCVA 20/30 2018 Topo below UCVA 20/30



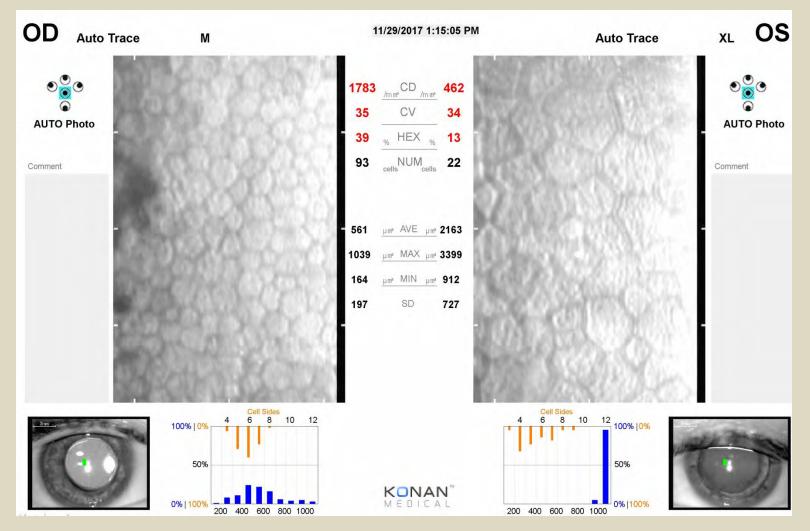
Case #3 OS 1989 RK Bogata, Columbia 1991 RK Ectasia, Penetrating Keratoplasty (PK) 8.0mm Jose Barraquer, MD Interim: worn GPHCL: -12.0+2.5x65 7/24/18 Cataract Extraction with Toric IOL UCVA 20/30



Case #3 OS 1989 RK Bogata, Columbia 1991 RK Ectasia, PK 8.0mm Jose Barraquer, MD Interim: worn GPHCL: -12.0+2.5x65 6/2018 Cataract Extraction with Toric IOL UCVA 20/30 Richard Erdey, MD 12/2018 topography below UCVA 20/30



2017 ENDOTHELIAL CELL COUNT2012 OD: DALK1991 OS: PKP



Case #3: Observations:

RK ectasia OU

OD: DALK large diameter, with suture out cataract extraction toric IOL OS: PKP with delayed cataract extraction toric IOL

- DALK (large diameter) OD: 7 yrs post DALK. has less astigmatism and better corneal HOA's than other (OS) eye which had a PK. This correlates with this patients subjective observations (prefers OD>OS). Recipient endothelial cells are PRESERVED, cell count decay will NOT occur. This graft is expected to last a lifetime.
- PK OS demonstrates higher astigmatism and HOA's with very low endothelial counts, as expected, 28yrs later. The graft will decompensate in the near future and DMEK/DSEK will be necessary to "refresh" the insufficient endothelial cell counts. We can anticipate a hyperopic shift afterwards. This future intervention will NOT be required in the other (OD) DALK eye .

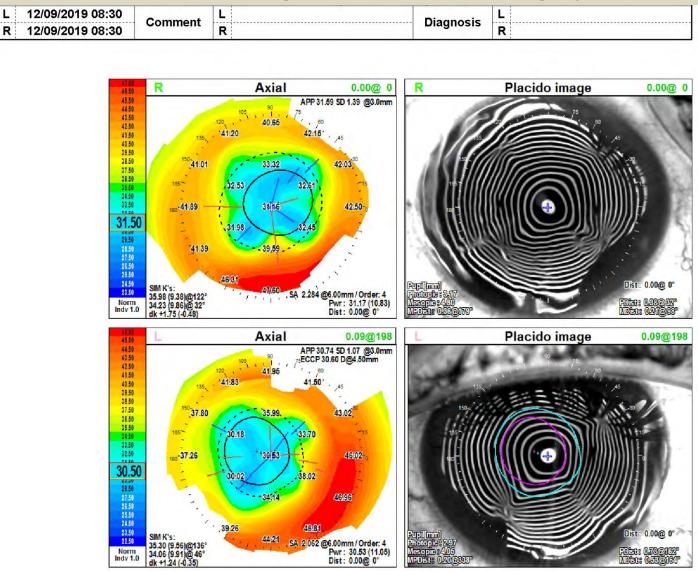
Case 4 63 yo RK ectasia OU, presents in 12/2019 "very unhappy" "no visual improvement – very poor vision quality "even worse at night" "cannot drive" and persistent diurnal fluctuation OU despite crosslinking (OS) 2013 and cataract surgery (OU) 2018

OD -2.0+1.5 x180 "20/25" OS -0.5+1.25x175 "20/25"

- 2018 Cataract extraction with Alcon Acrysoft 24.5D OU Local University Hospital
- 2013 Cross linking OS Local University Hospital
- 1995 RK OU out of state (pre-op Rx: OD -6.25 OS -6.5)

Case 4: 63 yo RK ectasia, irregular astigmatism, chronic diurnal fluctuation OU "no improvement" after crosslinking (OS) and cataract surgery (OU)

R

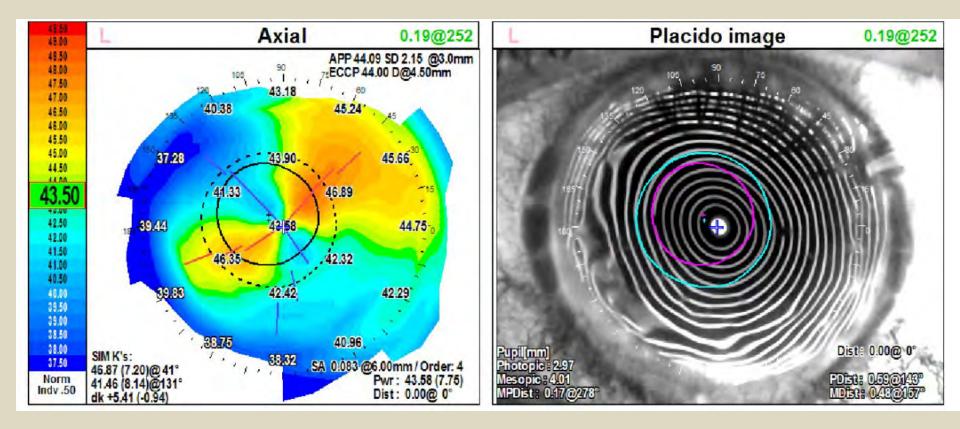


Case 4: LEFT EYE

63 yo RK ectasia, irregular astigmatism, chronic diurnal fluctuation OU "no improvement after crosslinking (OS) and cataract surgery (OU)"

- 1/21/2020 OS DALK 9.5mm bed/9.75mm donor predescemets dissection multiple perforations at RK incision sites, added ac air, 24bite running suture adjusted under intraoperative keratometer
- 10/21/2020 (9 mos later) OS removed running suture

Case 4: LEFT EYE 1/15/2021 (one year post DALK, running suture out x 3 mos): OS -15.75 + 5.0 x 43 20/25 add 2.50 J1

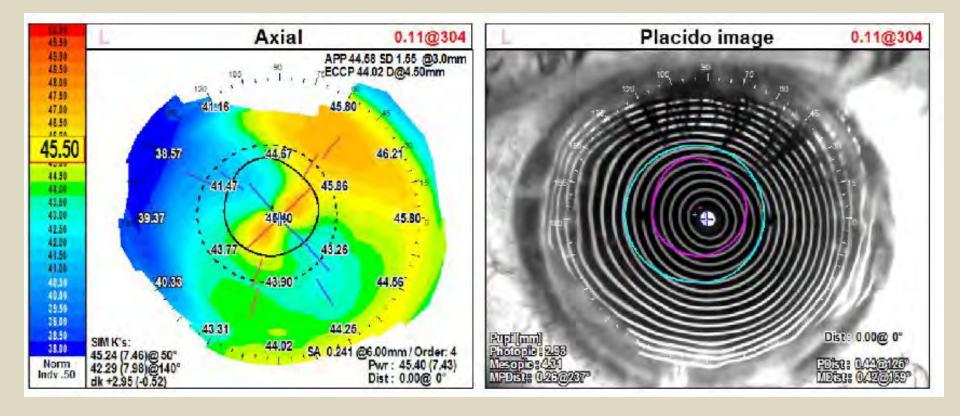


Case 4:

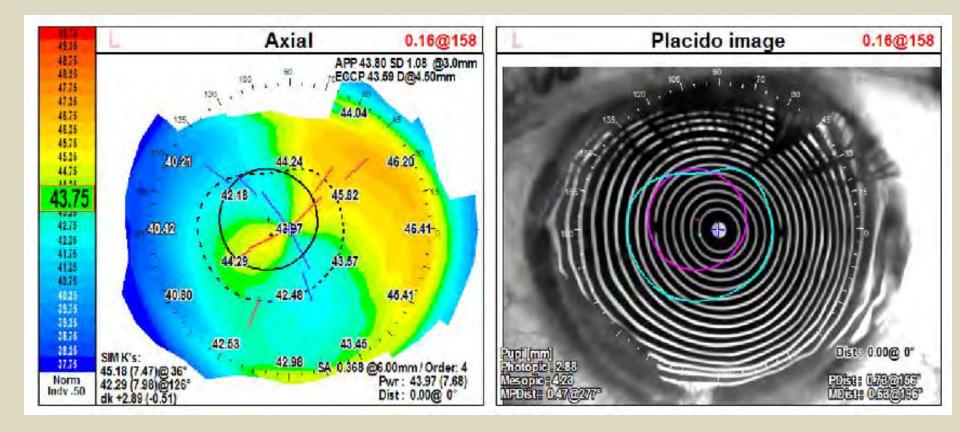
• 3/9/2021 OS:

Exchange Alcon AcrySof IQ SN60WF 24.5D for AMO Toric ZCT600 7.5D x 60

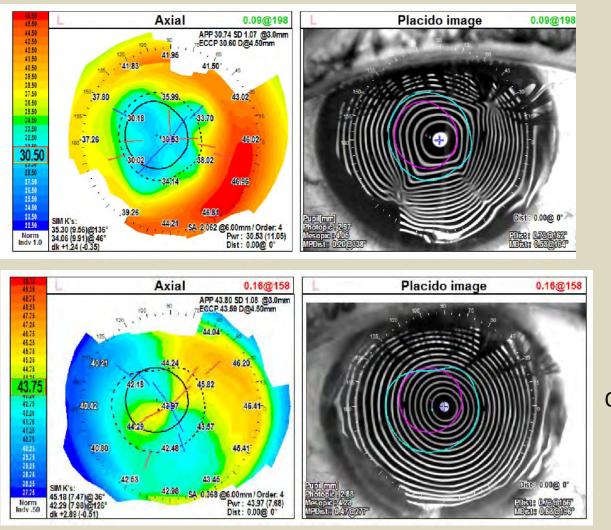
Case 4: LEFT EYE 8/23/2021 OS: (1.5 years after DALK, running suture out x 10 mos, 7 mos after IOL exchange): OS UCVA 20/30 -0.5+0.5x008 20/20 add 2.50 J1



Case 4: LEFT EYE 2 yrs after DALK, 1yr after IOL exchange: OS UCVA 20/25 -0.5+0.5x008 20/20 add 2.50 J1



Case 4: LEFT EYE: SUMMARY Pre-op vs. 2 years after DALK (large dia.)



OS: Pre-op DALK 25yrs after RK/CXL/ cataract / high power IOL

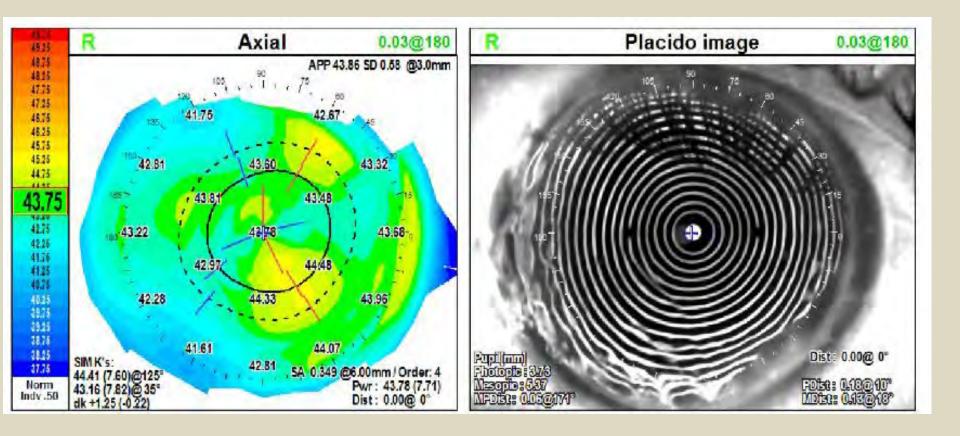
OS: 2 yrs after DALK, 14mos after running suture removal, 1yr aft IOL exchange): OS UCVA 20/30 -0.5+0.5x008 20/20 add 2.50 J1

Case 4: RIGHT EYE

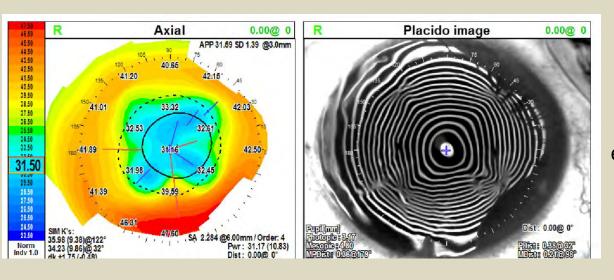
63 yo RK ectasia, irregular astigmatism, poor vision, chronic diurnal fluctuation, cataract surgery with high power IOL. (Due to poor results in other eye after cross-linking, pt had refused cross-linking in this eye)

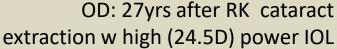
- 10/5/2021 OD: DALK 9.5mm host/9.75mm donor (donor marked nasal during harvesting, laterality matched) predescemets dissection microperforation at 11:30 and 12:30 periphery adjusted running suture under intraoperative keratometer
- 3/22/2022 (5 mos later) removed running suture

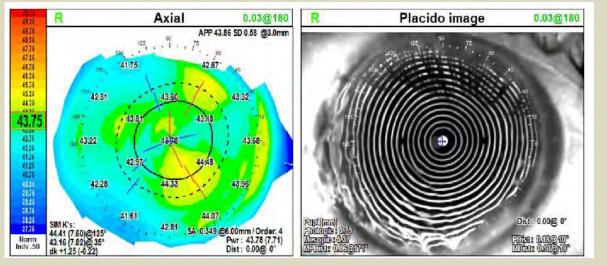
Case 4: RIGHT EYE: DALK 10/5/2021 DALK, (running suture out x 1 mo): -13.0 + 0.5 x 70 20/25 add 2.50 J1



Case 4: RIGHT EYE: SUMMARY Pre-op vs. 14 mos after DALK (large 9.5mm dia.)







OD: 14mos after DALK, 9 mos after running suture removal, 6 mos aft IOL exchange w B&L MX60T1.25 9.0 x 125 Uncorrected VA 20/25

Case 4 OD: DALK / IOL Exchange OS: DALK / IOL Exchange

Outcome: Extremely HAPPY!

- OD (before DALK) -2.25+1.50x180 20/25 note flat K's, high aberration profile c/w "very poor day and even worse night vision" with diurnal fluctuation "for many years"
- OD 10/5/2021: DALK 9.5mm dia laterality matched, marked nasal sutureout astigmatism negligible. After IOL exchange. UCVA 20/25!
- OS UCVA 20/30 -0.5+0.5x008 20/20 add 2.50 J1
- OS visual quality "light years better than my right eye" (since DALK OD performed) despite right eye refracting to "20/25" pre-DALK c/w poor visual quality/contrast sensitivity). Diurnal fluctuation did not improve after cross-linking but was completely eliminated after DALK.

Case #4 Patient testimonial Large diameter DALK OU: Cornea Restoration for RK ectasia

https://youtu.be/fahTnxXAUxQ

Case 4: Conclusions: RK Ectasia OU"unsuccessful" corneal crosslinking (OS) with subsequent cataract surgery w high power IOL OU OD: Large dia DALK – IOL exchange OS: Large dia DALK and staged IOL exchange

After experiencing the results of this fully restorative surgical sequence including high optical quality uncorrected VA OS with complete resolution of diurnal fluctuation this astute patient asked me a series of questions during a post-op exam:

"Were you performing DALK surgery in 2013 when I was instead referred across town for cross linking?" Answer "yes"

"Well...neither the crosslinking nor the subsequent cataract surgery helped me. I lost 8 years of my life that I could have instead been seeing this well!"

Discussion:

This patient unnecessarily lived with very poor quality, fluctuating corneas and poor VA for 8 yrs longer than he needed to.

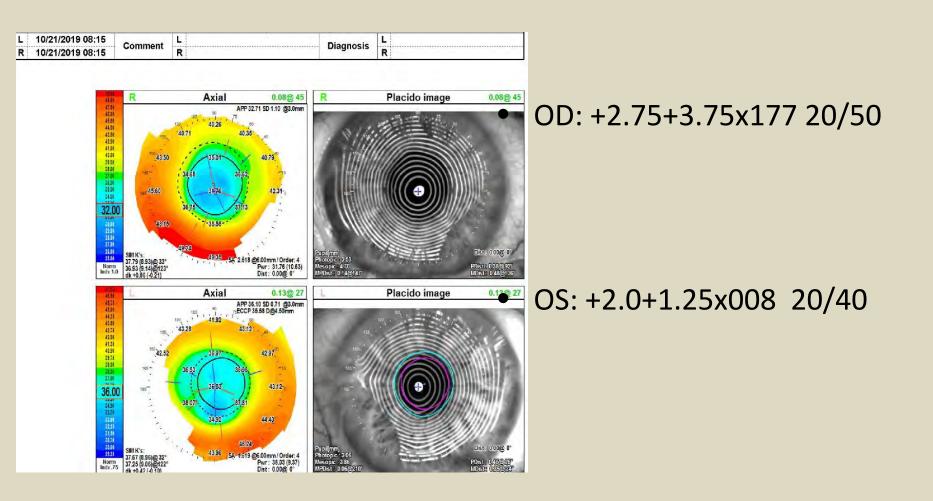
At best, cornea cross-linking is theoretically designed to "stabilize"...it is NOT restorative, It is a not a "Refractive Surgical procedure" in that it effect on cornea curvature is NOT predictable. It is not stable over time, It does NOT meaningfully improve higher order aberrations or irregular astigmatism, It will potentially flatten K's further (though I have also seen steepening), It does not eliminate, but has been reported to possibly "improve" diurnal fluctuation. Large Diameter (9.5-10mm)DALK, in my hands, is not only fully restorative, it also "qualifies" as a refractive surgical procedure when combined with a running adjustable 24 bite suture to "train" the cornea to be a better sphere. Suture-out cornea donor graft curvature is VERY stable over MANY years! Residual astigmatism if present is REGULAR and can be predictably debulked with single or paired scleral tunnel incisions on steep axis 2mm into graft stroma but NOT penetrating into eye to avoid detaching descemets membrane. Diurnal fluctuation is ELIMINATED!

Cross-linking makes subsequent manual layer by layer stromal dissection more difficult because cross-linked stromal collagen has a notably firmer texture often requiring two crescent blades dulling them faster than dissecting "virgin" stroma. It is generally also more difficult to achieve a big bubble during DALK in a cross linked cornea.

Five years after "unsuccessful" cross-linking OS, this patient had cataract surgery OU which predictably would not improve visual function in either eye. Because of the lack of regional DALK capability and generally high conversion rates to PKP (with all it's limitations) there is a strong tendency to perform cataract surgery with a high power IOL to compensate for excessive cornea flattening and irregularity rather than first definitively restoring the cornea with DALK. After Cataract surgery with IOL in such a case, Snellen Visual acuity is misleading – note this pt refracted to "20/25" in each eye after cataract surgery but was miserable due to poor visual quality and diurnal fluctuation. When this approach "fails", and a DALK becomes necessary, the patient is subjected to an additional intraocular procedure (IOL exchange) required to achieve final "optical rescue".

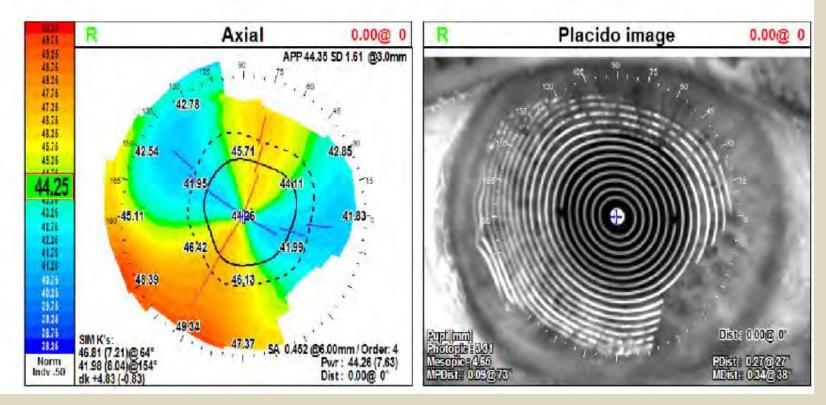
My overall DALK conversion rates to PKP for all indications are neglible. Over the last 14 years 99.5% of all attempted DALK were completed, only 2 had to be converted to PKP (12 yrs ago). During this same period, I have had zero conversions to PKP when performing DALK in RK ectasia eyes. My cornea fellowship-trained partner, Daryl Kaswinkel, MD has nearly the same very low rates of conversion to PKP during DALK.

Case 5: 71 yo male c/o night glare, very poor night vision, visual fluctuation, requiring scleral contacts x 10yrs, now intolerant. Progressive hyperopia 2008 OD: cataract extraction with Alcon SN60WF 24.0 in N.C. OS: phakic 1990 OU Radial Keratotomy in North Carolina



Case 5: Right Eye 5/2022 -10.75+3.50x58 20/25 (successfully wearing scleral lens while anticipating IOL exchange) 9/2020 OD Removed running suture 10/2019 OD DALK 10.0mm

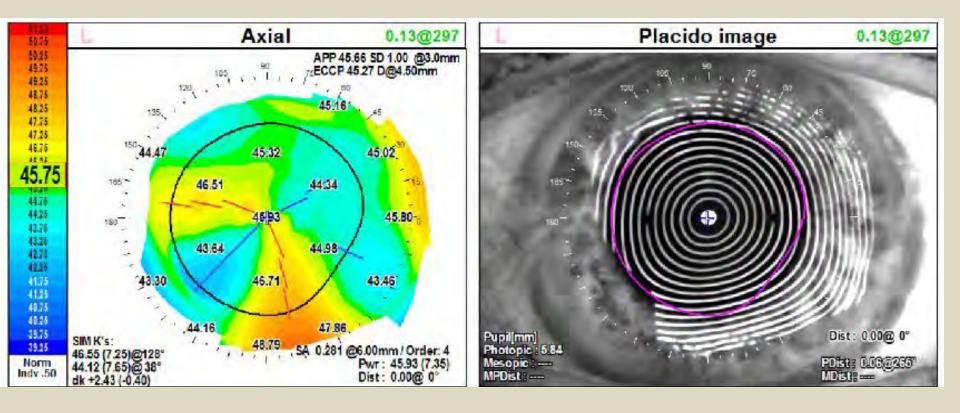
L 05/25/2022 08:05	Comment	L	Diagnosis	L
R 05/25/2022 08:04		R		R



Case 5: Left eye 9/2022 -4.25+1.0 x 150 20/50 (cataract) note topo below – non-orthogonal astigmatism

5/2021 removed running suture

9/2021 DALK 10.0mm/10.5mm dia donor laterality matched, nasal marked/oriented



Case 5: Left EYE

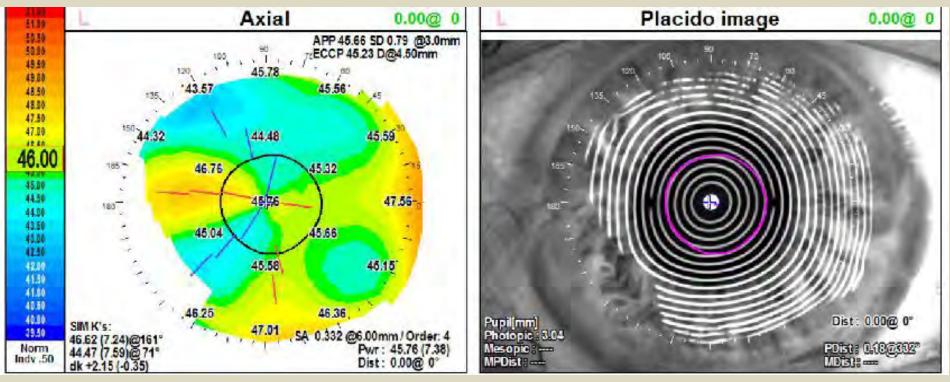
1/9/2023 Uncorrected VA 20/25 -1.0+0.5x36 20/20 "EXTREMELY HAPPY!"

(topo below: note debulked cylinder)

12/20/2022 cataract ext w B&L MX60T 3.50 12.5D x 160

9/2022 AK - inferior scleral pocket lamellar incision 1mm posterior to limbus, 7mm arc length centered on x 280 deg 2mm into graft but NOT penetrating into anterior chamber to avoid possible descemets membrane detachment

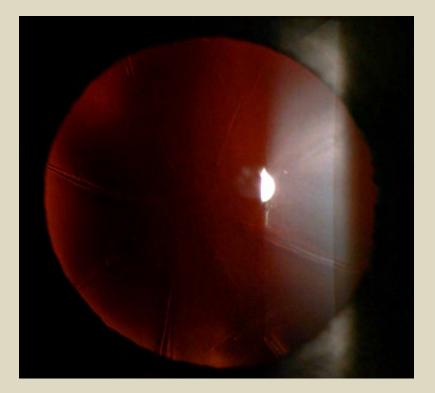
9/2021 DALK 10.0mm/10.5mm dia donor laterality matched, nasal marked/oriented

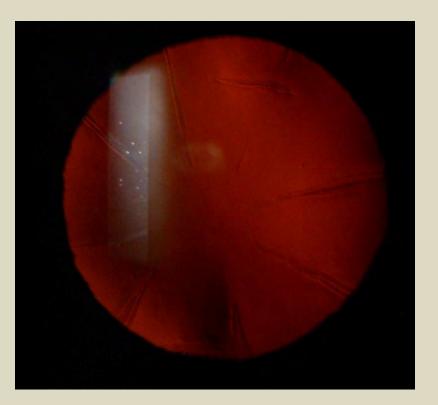


Case #6 55yo male Radial Keratotomy (RK) both eyes 1993 Illinois c/o very poor night vision, glare, diurnal fluctuation

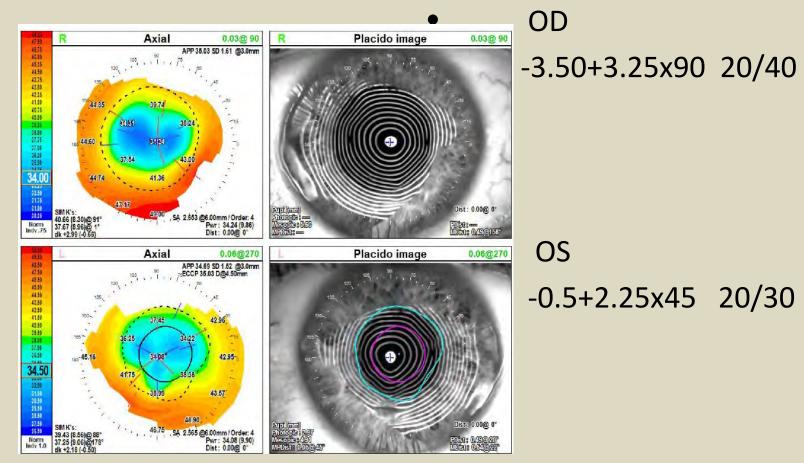
• Right Eye

Left Eye





Case #6 55yo male Radial Keratotomy (RK) both eyes 1993 Illinois c/o very poor night vision, glare topography OU: irregular astigmatism, very flat central K's



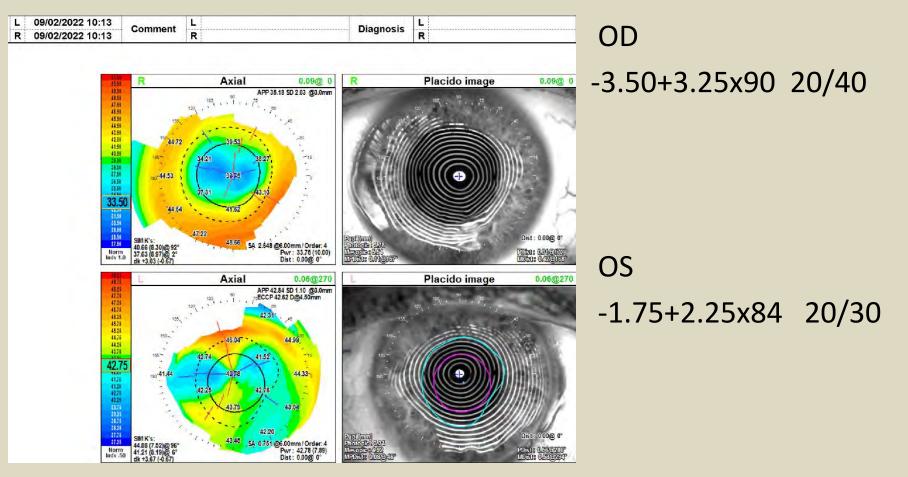
OS: visual quality/night vision "dramatically improved – superb visual clarity!"

9/2022 OS: topography: restored normal K's, eliminated irregular astigmatism

7/2022 OS: Cataract ext w Toric B&L MX60T4.25 13.5 x 95

2/2022 OS: removed running corneal suture

5/2021 OS: DALK 9.5mm bed/9.75mm donor predescemets deep dissection, no perforations 1993 Radial Keratotomy (RK) OU



visual quality/night vision "dramatically improved after only 3 wks!"

11/29/22 OD topography: restored normal K's, note 3.7D w-t-r regular astigmatism cylinder – suture "in"

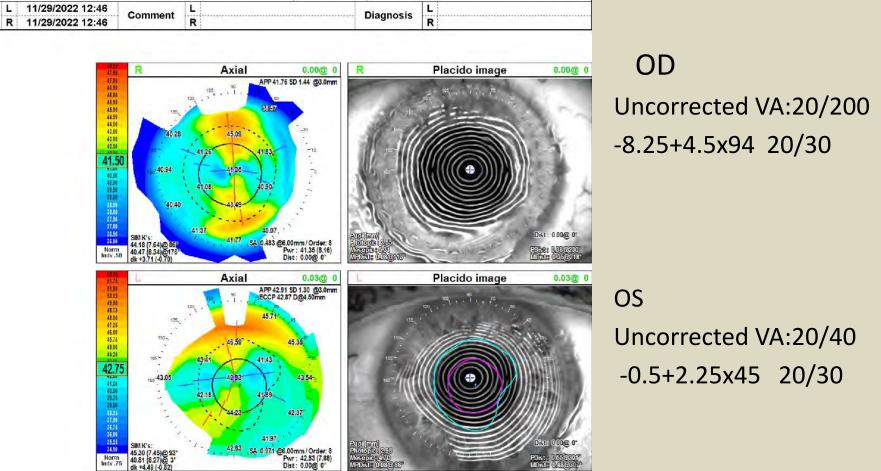
11/8/2022 OD DALK 9.5mm bed/9.75mm donor laterality matched nasal marked big bubble no perforations

24 bite running suture adusted under intraoperative keratometer

7/2022 OS: Cataract ext w Toric B&L MX60T4.25 13.5 x 95

5/2021 OS: DALK 9.5mm bed/9.75mm donor predescemets deep dissection, no perforations

1993 Radial Keratotomy (RK) OU



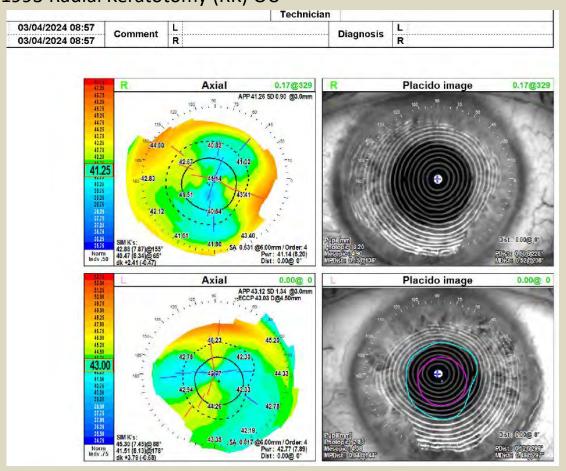
visual quality/night vision "dramatically improved – superb visual clarity!"

topography OU: restored normal K's, eliminated irregular astigmatism

3/2024 OD topography : restored normal K's, regular astigmatism suture "out" scheduled for LAL

11/2022 OD DALK 9.5mm bed/9.75mm donor laterality matched nasal marked big bubble no perforations 7/2022 OS: Cataract ext w Toric B&L MX60T4.25 13.5 x 95

5/2021 OS: DALK 9.5mm bed/9.75mm donor predescemets deep dissection, no perforations 1993 Radial Keratotomy (RK) OU



- OD
- Uncorrected VA:20/150
- -8.75+2.75x167 20/30
- Scheduled for LAL

- OS OS
- Uncorrected VA:20/40
- -1.5+1.25x75 20/30

visual quality/night vision "dramatically improved - superb visual clarity!"

topography OU: restored normal K's, eliminated irregular astigmatism

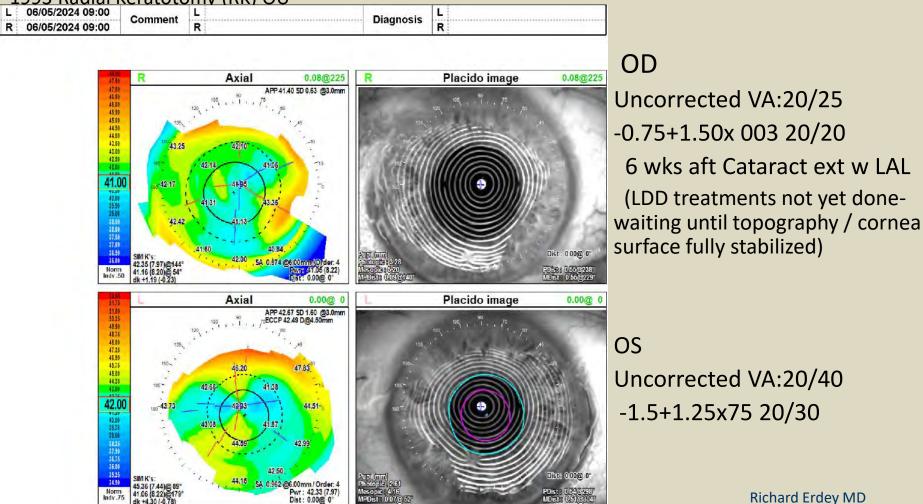
6/5/2024 OD topography : restored normal K's, regular astigmatism suture "out"

11/2022 OD DALK 9.5mm bed/9.75mm donor laterality matched nasal marked big bubble no perforations

7/2022 OS: Cataract ext w Toric B&L MX60T4.25 13.5 x 95

5/2021 OS: DALK 9.5mm bed/9.75mm donor predescemets deep dissection, no perforations

1993 Radial Keratotomy (RK) OU



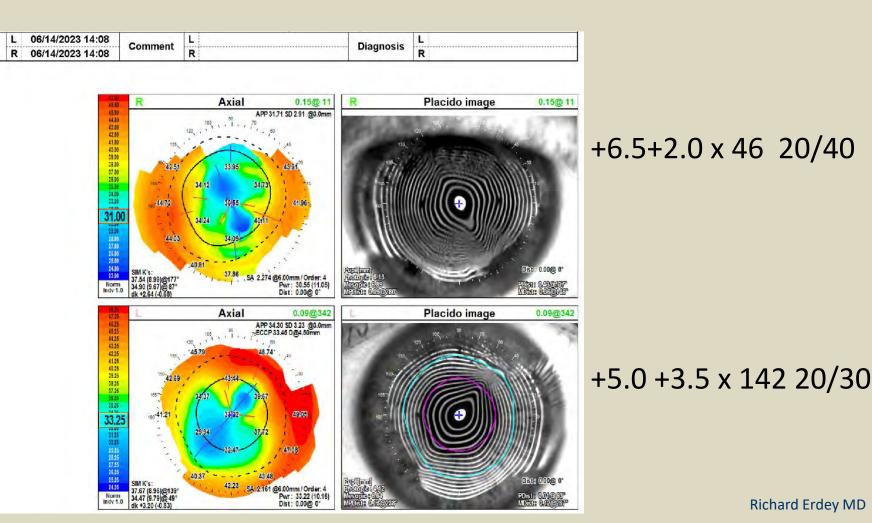
Case #6: video testimonial

https://youtu.be/PQcvbZWDclE

Case #6: Conclusion

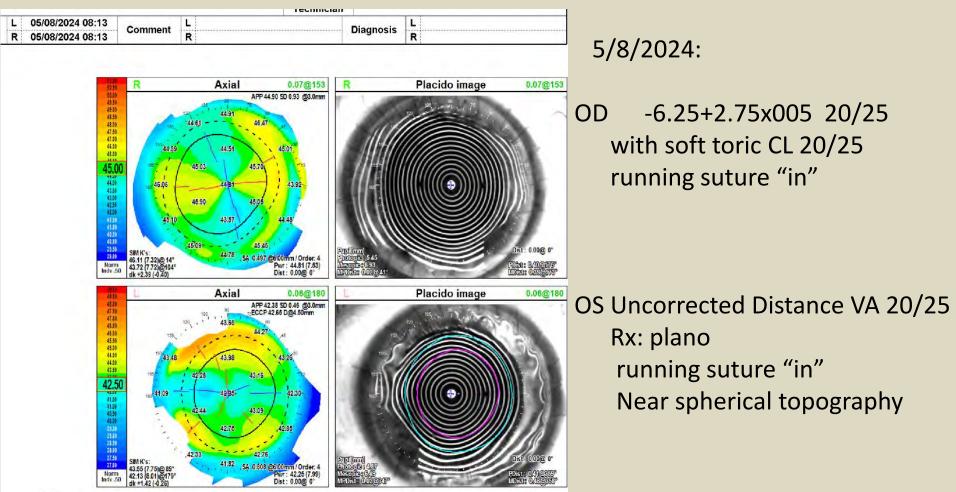
- OD: stunning final uncorrected result optical "rescue" with light adjustable lens (LAL)
- OS: could consider AK-scleral pocket incision to neutralize residual cylinder and further improve uncorrected VA. Pt had received standard (non-adjustable) toric IOL as LAL lens was not available at the time.
- This pt had prior RK in both eyes with a goal at the time of independence of corrective lenses. Late RK ectasia very significantly degraded his vision. DALK followed by staged cataract w IOL has fully restored visual quality in all lighting conditions and has once again reduced need for corrective lenses

Case #7 63yo female Radial Keratotomy (RK) both eyes 1994 c/o very poor night vision, glare topography OU: irregular astigmatism, very flat central K's



Case #7 63yo female visual quality/night vision "dramatically improved!" 5/08/2024 OU topography below

12/2023 OS: DALK 10.0mm bed/10.0mm donor predescemets deep dissection, no perforations 8/2023 OD: DALK 10.0mm bed/10.0mm donor predescemets deep dissection, no perforations 1994 Radial Keratotomy (RK) OU



Case #7 Video : uncut (2hrs) Large Dia DALK for RK Ectasia – Left Eye

- PT 1: <u>https://youtu.be/5dy2VeZhz64</u>
- PT 2: <u>https://youtu.be/QpbUxrhvavg</u>
- PT 3: <u>https://youtu.be/8mgj76dE-tk</u>
- PT 4: <u>https://youtu.be/XDCWSWPUOA0</u>
- PT 5: <u>https://youtu.be/VpFdxIEsFxk</u>

Case #7: goggle testimonial

I was referred to Dr. Richard Erdey for corneal surgery. I had RK in 1994 that basically shredded my corneas. I was at a point that my vision was uncorrectable via glasses or contacts. My local ophthalmologist referred me to Dr. Erdey who performed a DALK procedure (Deep anterior lamellar keratoplasty (DALK), a surgical procedure for removing the corneal stroma down to Descemet's membrane). My experience was excellent. The Dr. and staff were wonderful. Dr. Erdey is caring and thórough. He calls and texts me to see how I'm getting along. He went as far as looking up flights for me as I was wintering in FL at the time of my 2nd transplant surgery and arranged for another leading surgeon in Ft. Myers, FL to do a follow up so I didn't have to fly back to Columbus, OH. The surgeon in FL was very impressed by Dr. Erdeys skills as was my referring Dr. and optometrist. My vision has been restored and I will have 20/20 bilaterally once my cataracts are removed in another year or I so. His office is very busy but they are very friendly. They are working as fast as they can to meet your needs in a timely manner but often times you are waiting 30 min to an hour to get seen by the Dr. but you are seen by at least 2 other staff members running vision tests and such so that when he gets in the room he's full on your case and focused on you. By the time you leave it's been 2 hrs but I'm not complaining and I feel that's reasonable. I have nothing but great things to say about Dr. Erdey and his office staff. They take time to explain everything and when you go in for your surgery the nurses are wonderful and caring. I highly recommend him. Don't put off taking care of your vision. If you've been told there's nothing else they can do to correct your vision get another opinion and go see Dr. Erdey.