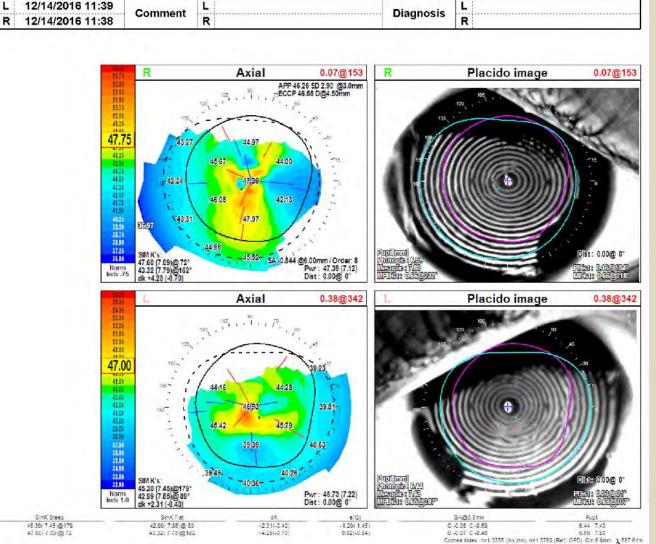
Case #1: 18 yo FM Macular Stromal Dystrophy both eyes



Case #1: 18 yo FM

Macular Stromal Dystrophy both eyes very poor vision especially at night OU]



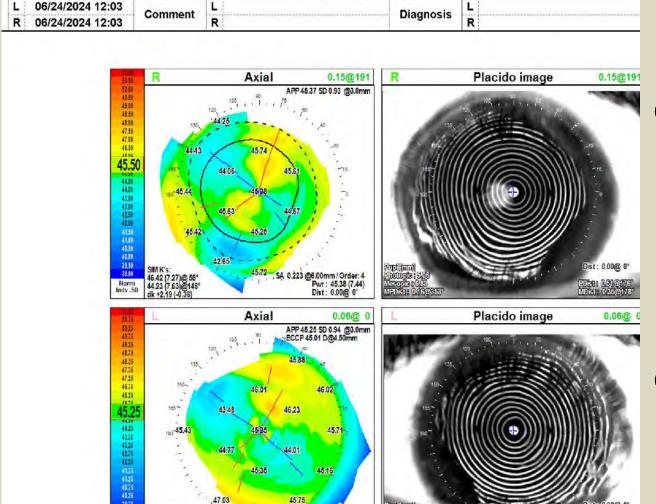
-4.75+5.0x89 20/50

-2.25+2.50x89 20/40

Case #1: (currently 25) yo FM Macular Stromal Dystrophy both eyes

12/2017 OS: DALK 9.0mm bed/9.25mm donor – suture removed 2019

05/2017 OD: DALK 9.0mm bed/9.25mm donor – suture removed 2018



47.11 SA 0.446 @6.00mm/ Order: 4

6/24/2024 7 yrs later

OD: -3.0+1.75x69 20/25

OS: -2.0+0.75 x 45 20/25

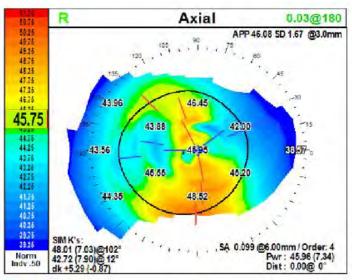
Case #1: 20 yo FM Macular Stromal Dystrophy both eyes Summary: 7yr f/u after successful large (10mm dia) DALK OU

- Has enjoyed fully restored vision in BOTH eyes requiring mild spectacle correction over the last 7 yrs. No contact lenses needed.
- As of 6/24/2024, no evidence of recurrence stromal macula dystrophy
- Benefit of large diameter DALK graft w deep predescemets dissection to within 15-30u of DM is debulking genetically compromised host keratocytes posteriorly and peripherally to near limbus to prevent early recurrence in deep central stroma which has so far not occurred in this graft after 7 yrs. If peripheral recurrence were to advance into OZ and impact vision over the next decade, this graft is designed to be peeled off and replaced, thus preserving descemets membrane which in our opinion is sacrosanct at any age but particularly for this young patient.

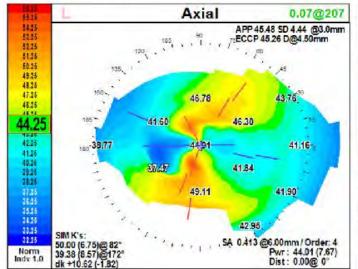
Case #2: 22 yo (younger sister to case #1) w Macular Stromal Dystrophy OU

"Very poor night vision – cannot drive"

L 04/04/2024 08:07	Comment	L	Diagnosis	L
R 04/04/2024 08:07		R		R



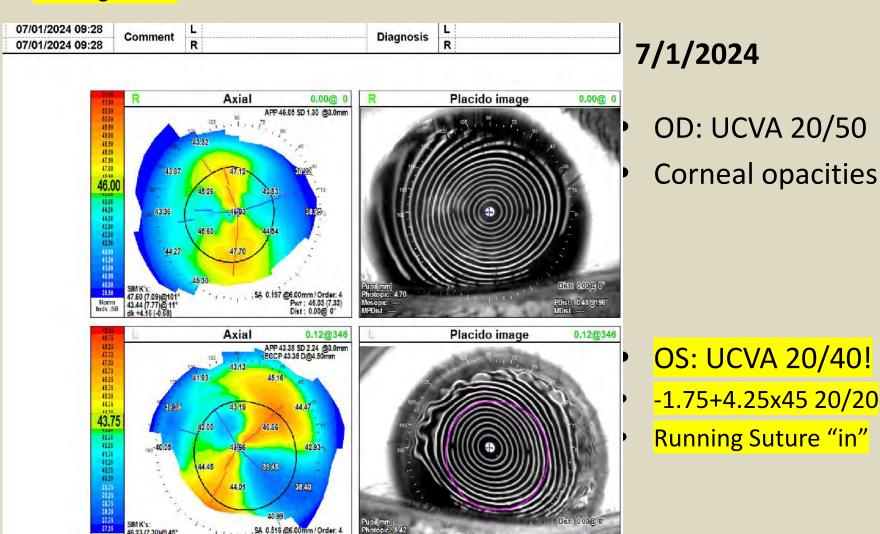






Case #2: 22 yo Macular Stromal Corneal Dystrophy

7/1/2024 OS TOPOGRAPHY below. High astigmatism 4/16/2024 OS: DALK 9.5mm donor/9.5 mm bed laterality matched nasal marked 24 bite running suture



Case #2: 22 yo Macular Stromal Corneal Dystrophy

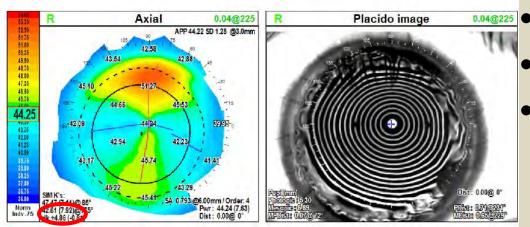
12/3/2024 OD: DALK 9.5mm bed/9.5mm donor laterality matched nasal marked 24 bite running suture

7/2024 OS: Adjust running suture under intraoperative keratometer

4/16/2024 OS: DALK 9.5mm donor/9.5 mm bed laterality matched nasal marked 24 bite running suture



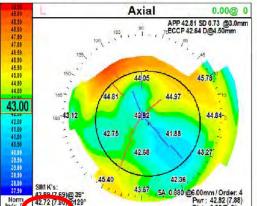
1/13/2025

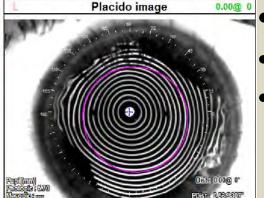


OD: UCVA 20/50

-3.5+4.5x83 20/25

Running Suture "in"





OS: UCVA 20/20!

-1.0+1.50x19 20/20

Running Suture "in"

Case #2: 22 yo Macular Stromal Corneal Dystrophy

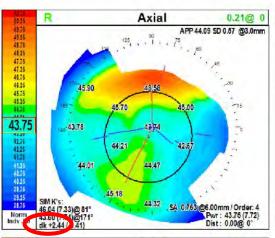
THRILLED!! Can see "clearly" for first time in years...Got married all this same year!

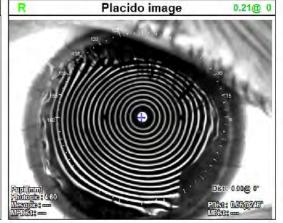
1/28/25 OD: Adjust running suture under intraoperative keratometer

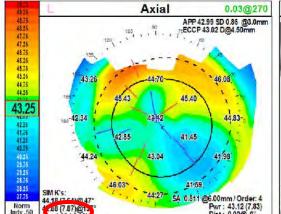
12/3/2024 OD: DALK 9.5mm bed/9.5mm donor 24 bite running suture

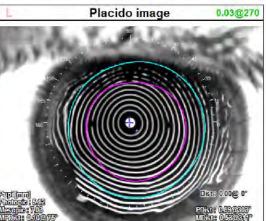
7/2024 OS: Adjust running suture under intraoperative keratometer

4/16/2024 OS: DALK 9.5mm donor/9.5 mm bed 24 bite running suture









2/10/2025

OD: UCVA 20/30

Running Suture "in"

OS: UCVA 20/20!

-1.0+1.50x19 20/20

Running Suture "in"

Case #2 -Summary

- Very early visual rehabilitation (excellent Uncorrected Visual Acuity (UCVA) only 3 days after DALK in both eyes.
- Dramatically improved UCVA both eyes after running suture adjustment in each eye.
- Running suture will be left "in" both eyes. Since DALK grafts spherical and near emmetropic, intend to leave in place indefinitely or until it spontaneously breaks (about 3-5 yrs). The longer left in place, greater change graft maintains its shape after eventual removal.