

Basic DMEK course for beginners

Moderator:



Prof. Dr. Tarek Katamish, MD
Cairo University

المؤتمر السنوي الدولي للجمعية المصرية
INTERNATIONAL CONGRESS OF THE
EGYPTIAN OPHTHALMOLOGICAL SOCIETY
EOS 2023
17-19 InterContinental
Citystars,
May Cairo, Egypt

Thursday, May 18, 2023

75 Hall 1 (Montzah 1,2) Floor -3 Cornea Course

Thu 18/5 11:00 Course 17: Basic DMEK Course for Beginners
13:00

Moderator
Tarek Katamish

Instructors:



Prof. Dr. Mohamed Bahgat, MD, FRCS
Alexandria University



Prof. Dr. Hisham Hasby, MD, FRCS
Tanta University



Dr. Fouad El Sayyad, MD,
ABO

| | Subject | Instructor | Time |
|----|---|-----------------|------------|
| 1 | Evolution of recent Endothelial Keratoplasty | Tarek Katamish | 5 minutes |
| 2 | Transition to DMEK & Case selection | Fouad El Sayyad | 8 minutes |
| 3 | DMEK Tissue preparation: Technique 1: Classic | Fouad El Sayyad | 10 minutes |
| 4 | DMEK Tissue preparation: Technique 2: Liquid bubble | Tarek Katamish | 7 minutes |
| 5 | DMEK Tissue preparation: Technique 3: Pre-cut Pre-stained Pre-loaded | Hisham Hasby | 10 minutes |
| 6 | Different types of DMEK rolls | Tarek Katamish | 5 minutes |
| 7 | Patient preparation (Wound construction & DM-Rhexsis) | Tarek Katamish | 10 minutes |
| 8 | DMEK injectors & injection of DMEK graft | Mohamed Bahgat | 15 minutes |
| 9 | DMEK graft orientation | Tarek Katamish | 12 minutes |
| 10 | Unfolding techniques & final tamponade | Mohamed Bahgat | 20 minutes |
| 11 | Postoperative management & rebubbling | Tarek Katamish | 3 minutes |
| 12 | Discussion | | 15 minutes |

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EOS 2023



Types & Evolution of Recent Endothelial Keratoplasty (EK)

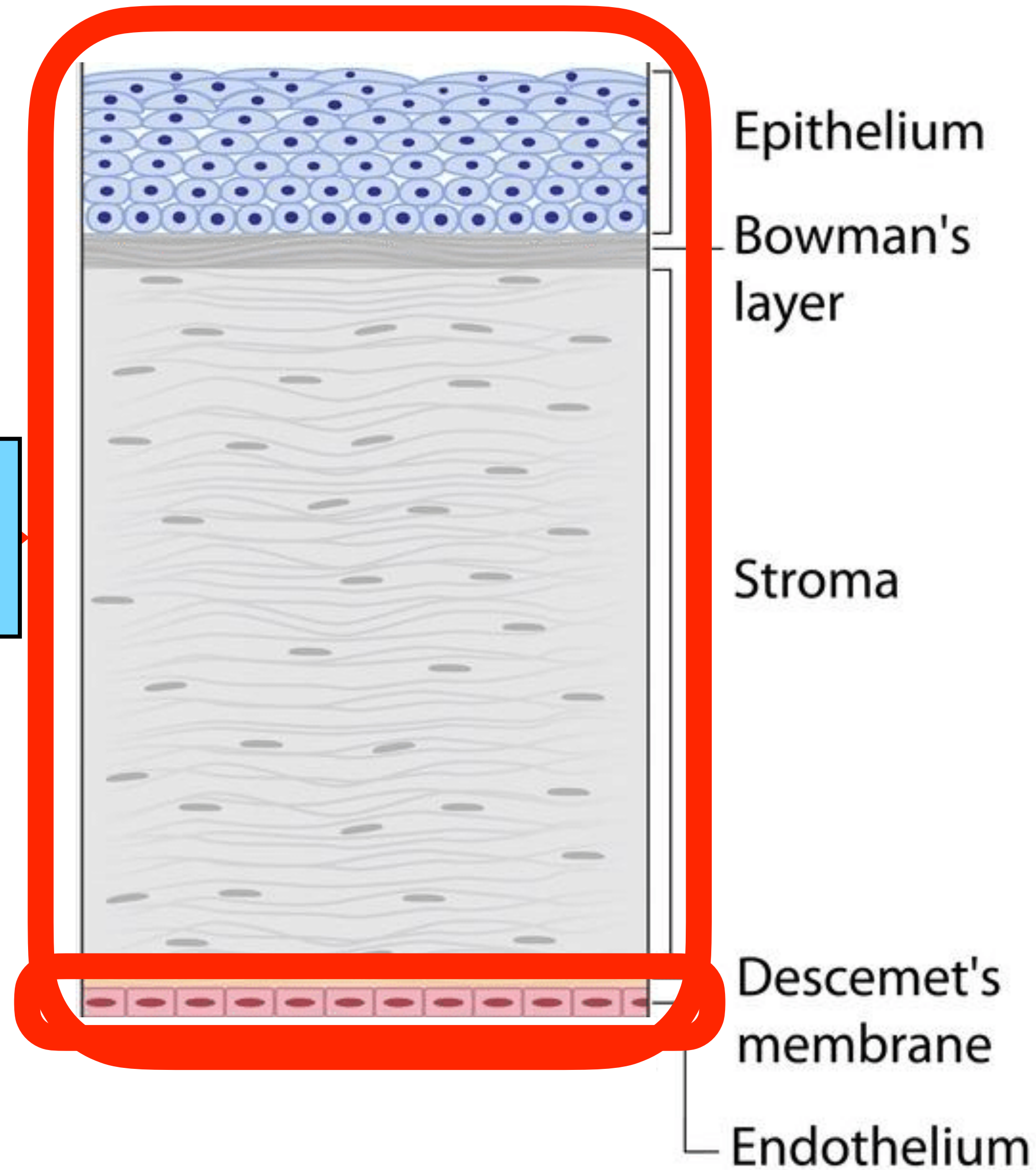
Prof. Dr. Tarek Katamish
Cairo University



Endothelial Keratoplasty

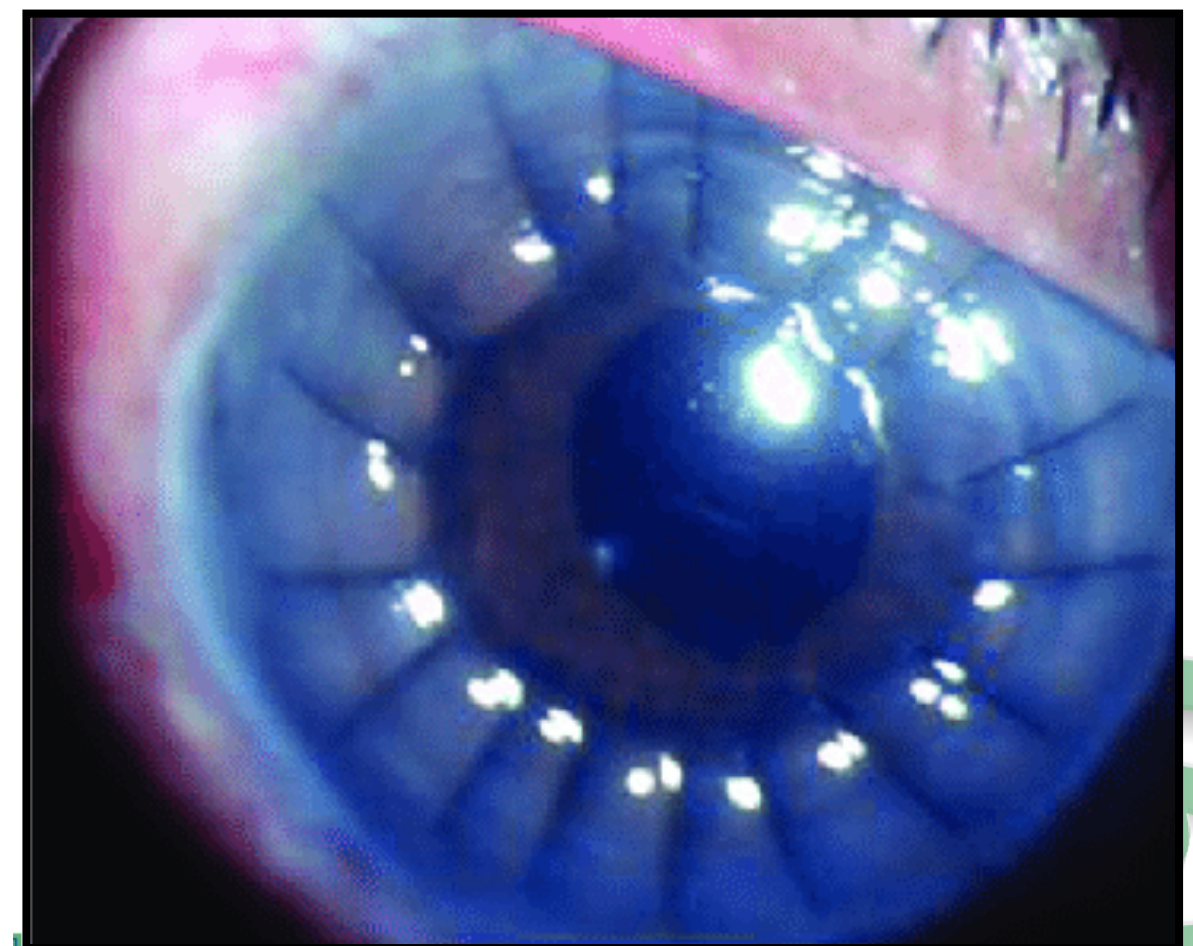
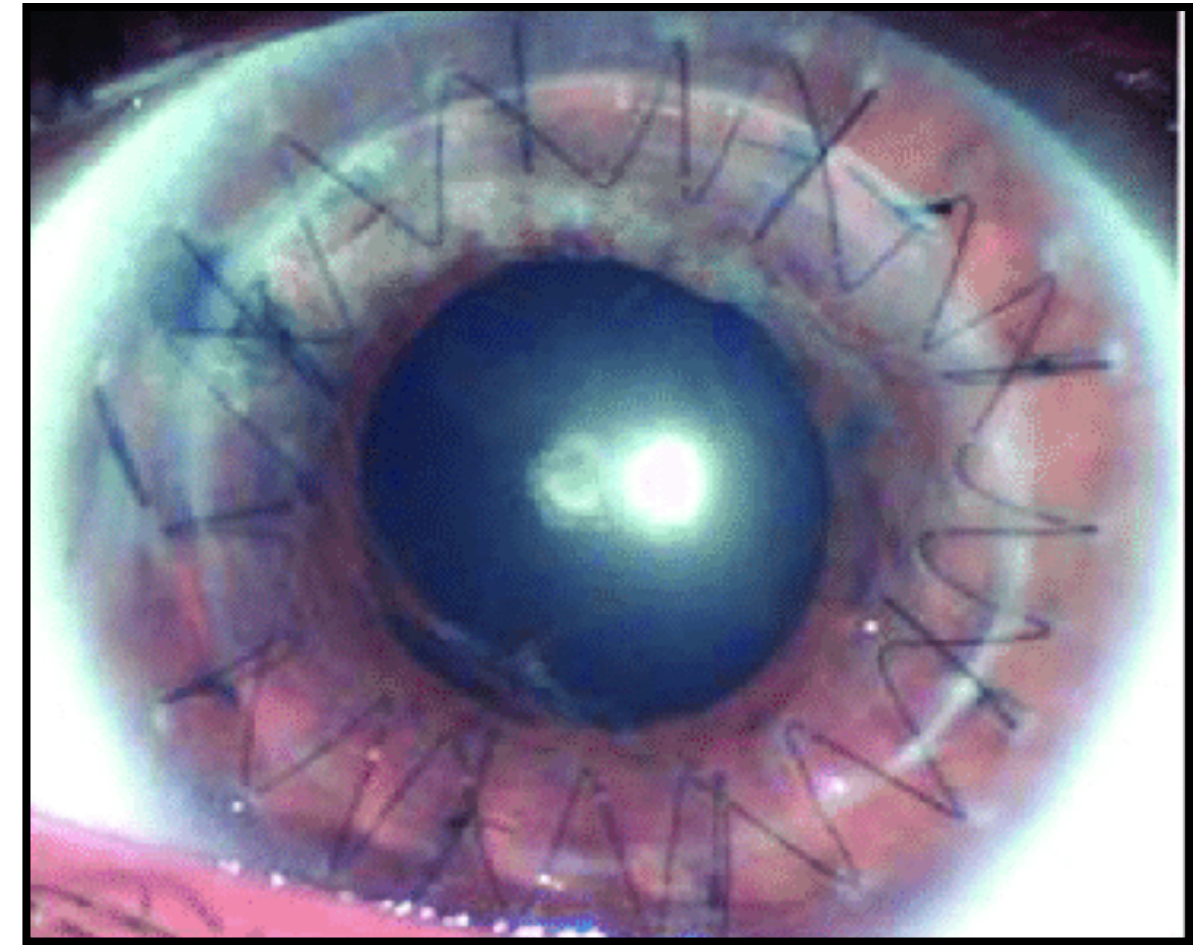
A group of operations for treatment
of
endothelial decompensation
(PBK & FED)

In the past

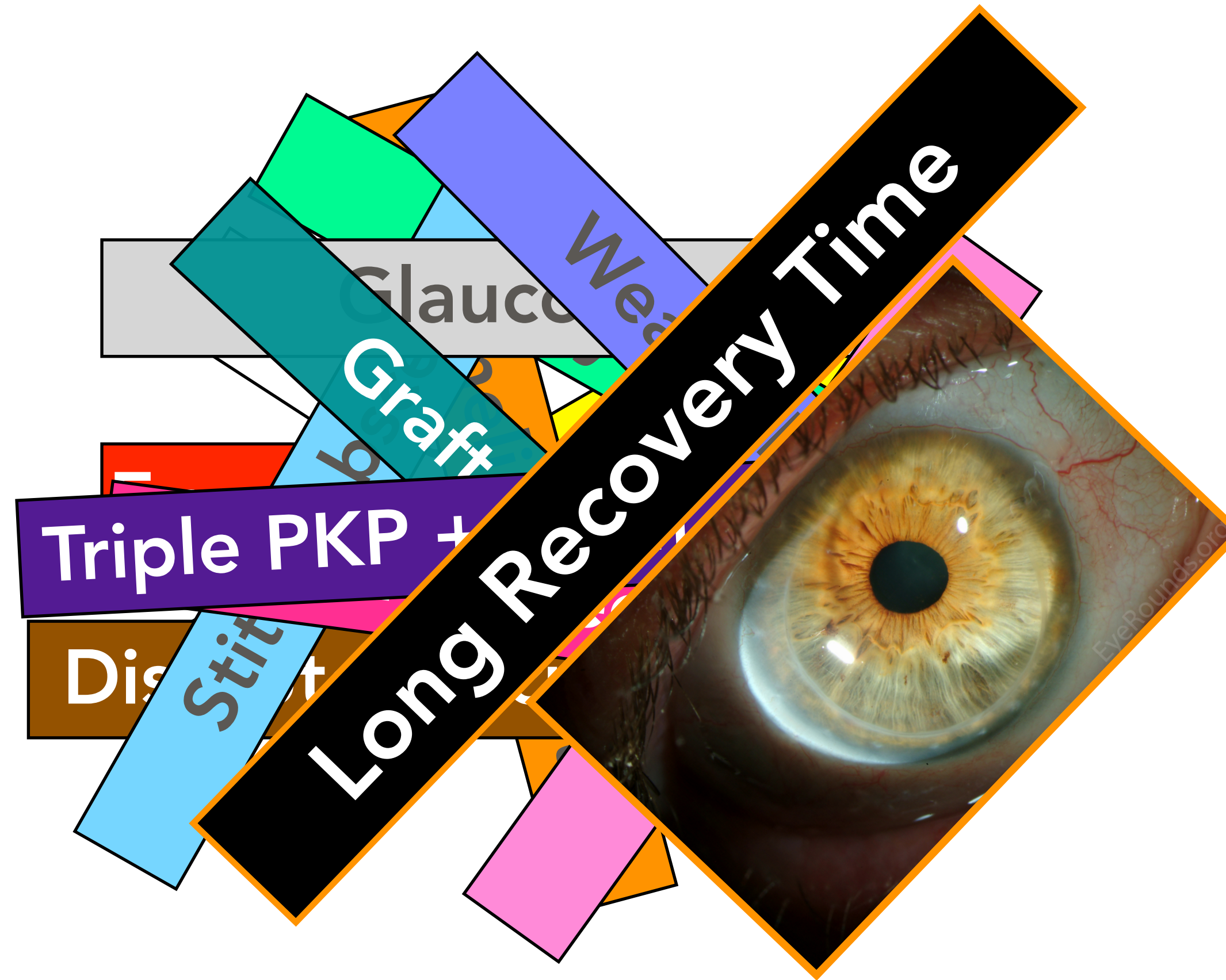
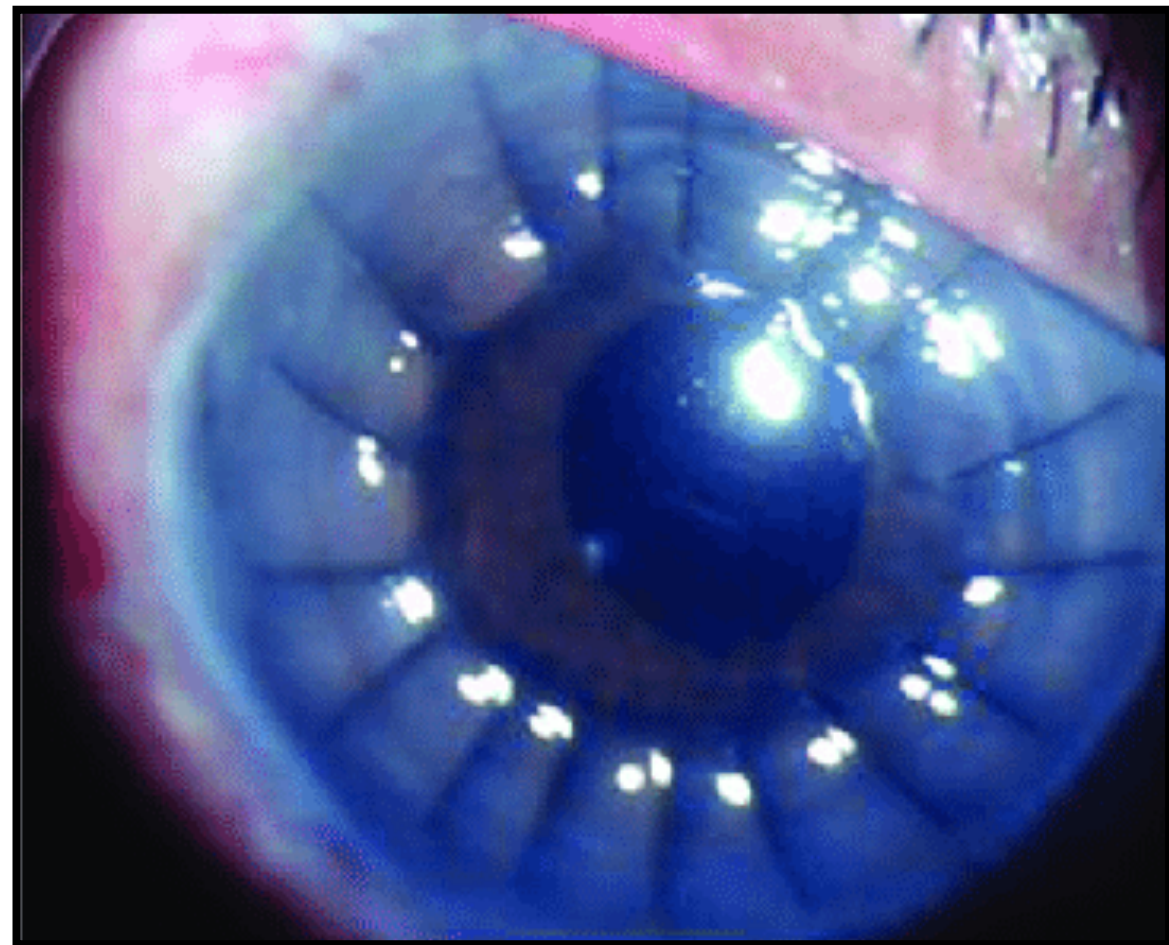
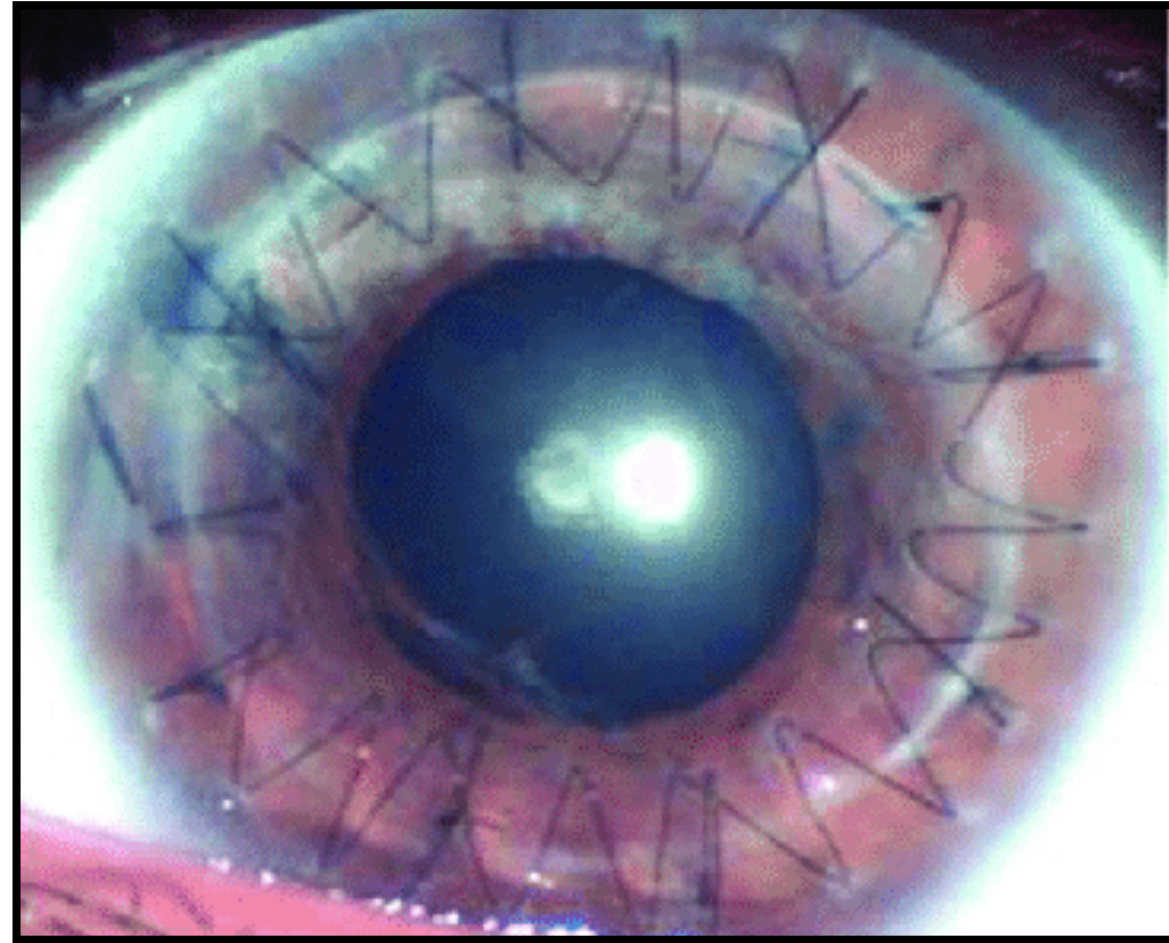


Endothelial Decompensation

- PBK (Pseudophakic bullous kertopathy)
- FED (Fuchs' Endothelial Dystrophy)



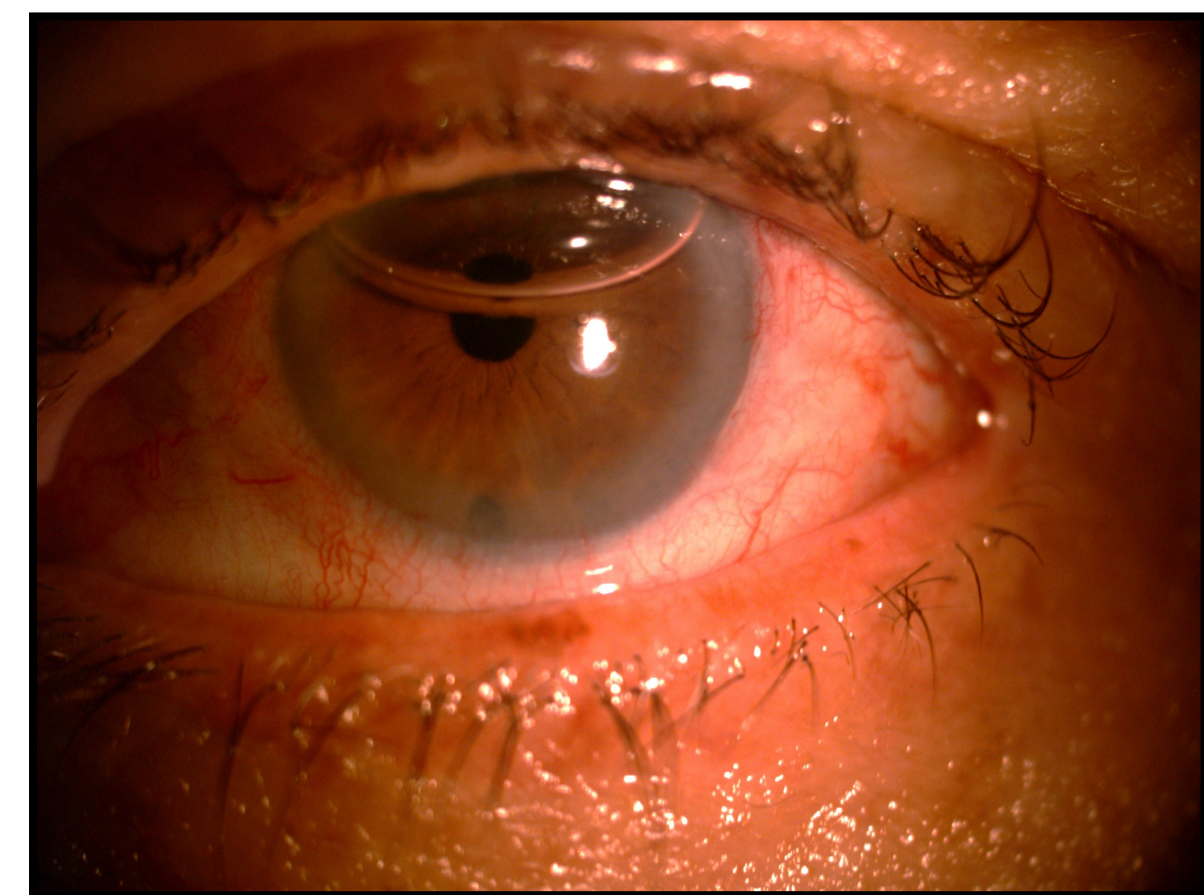
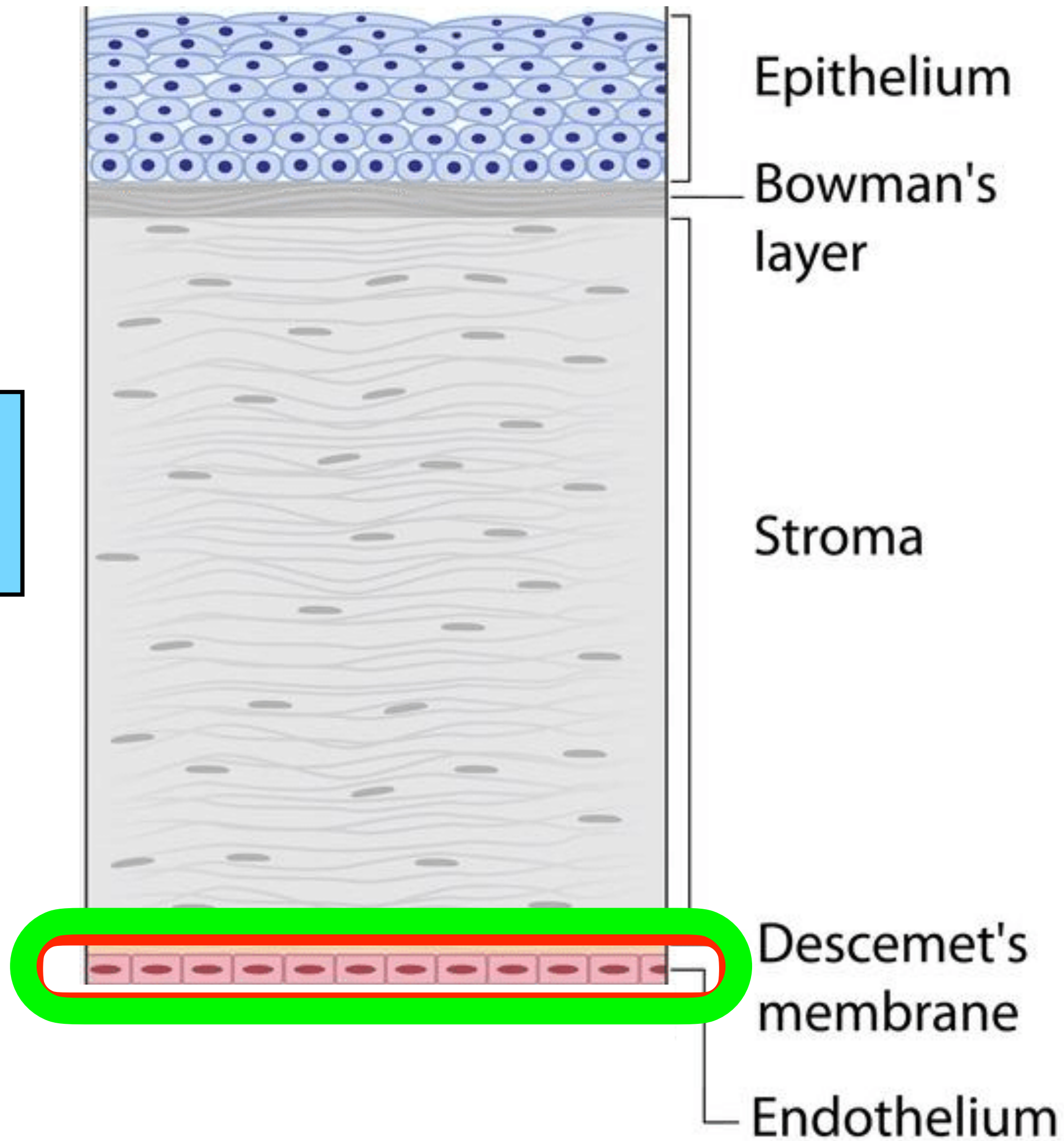
Complications of Full-thickness graft PKP



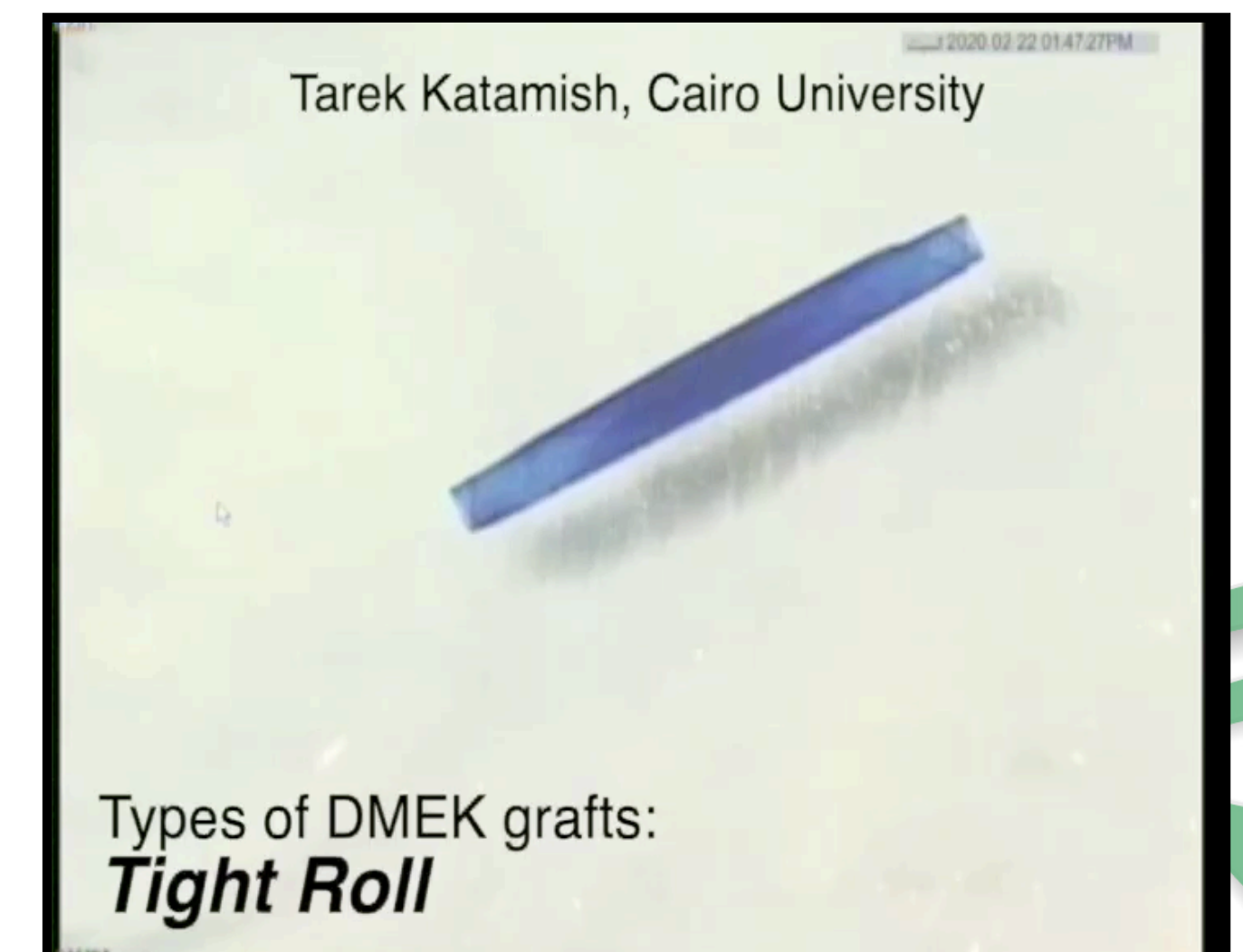
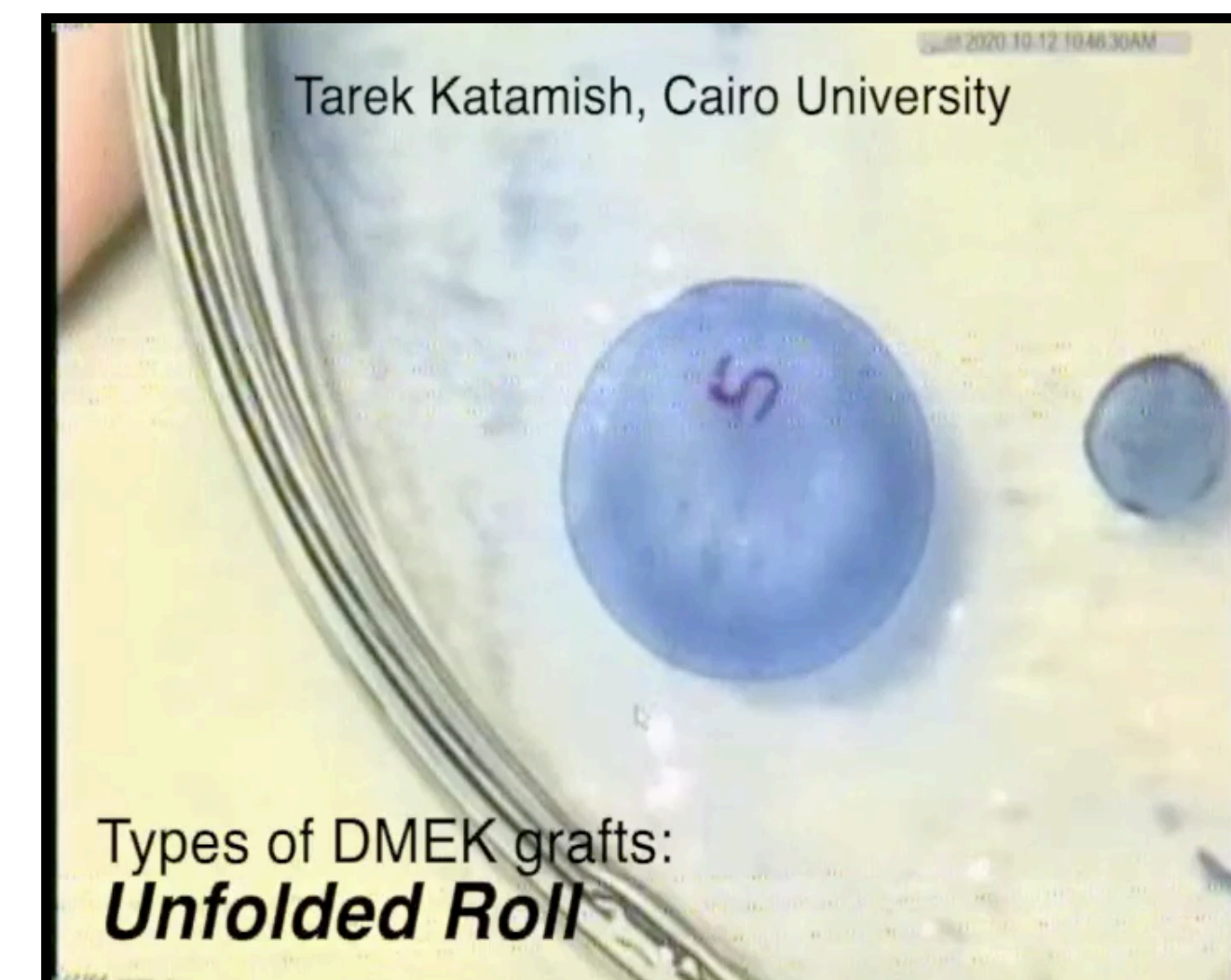
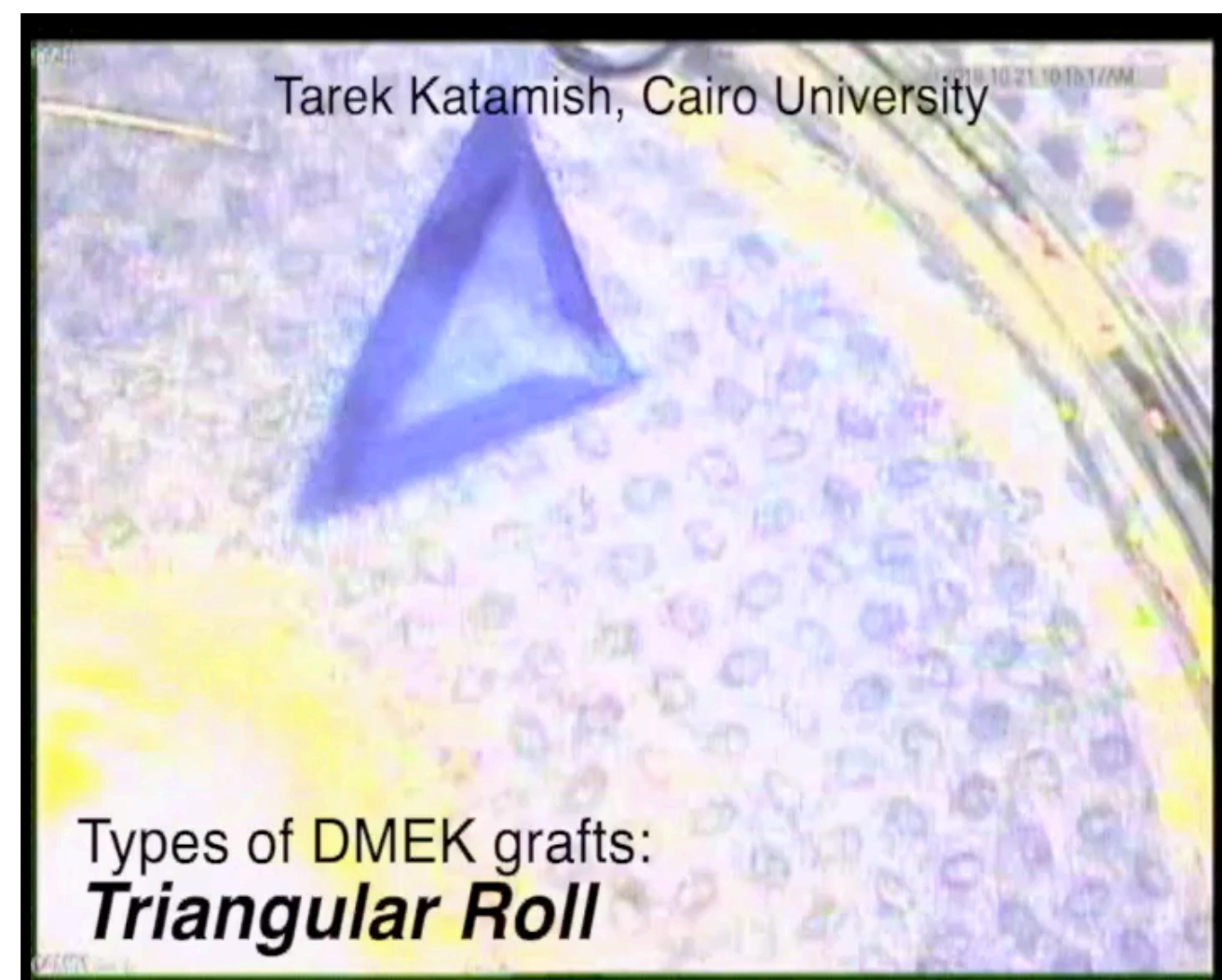
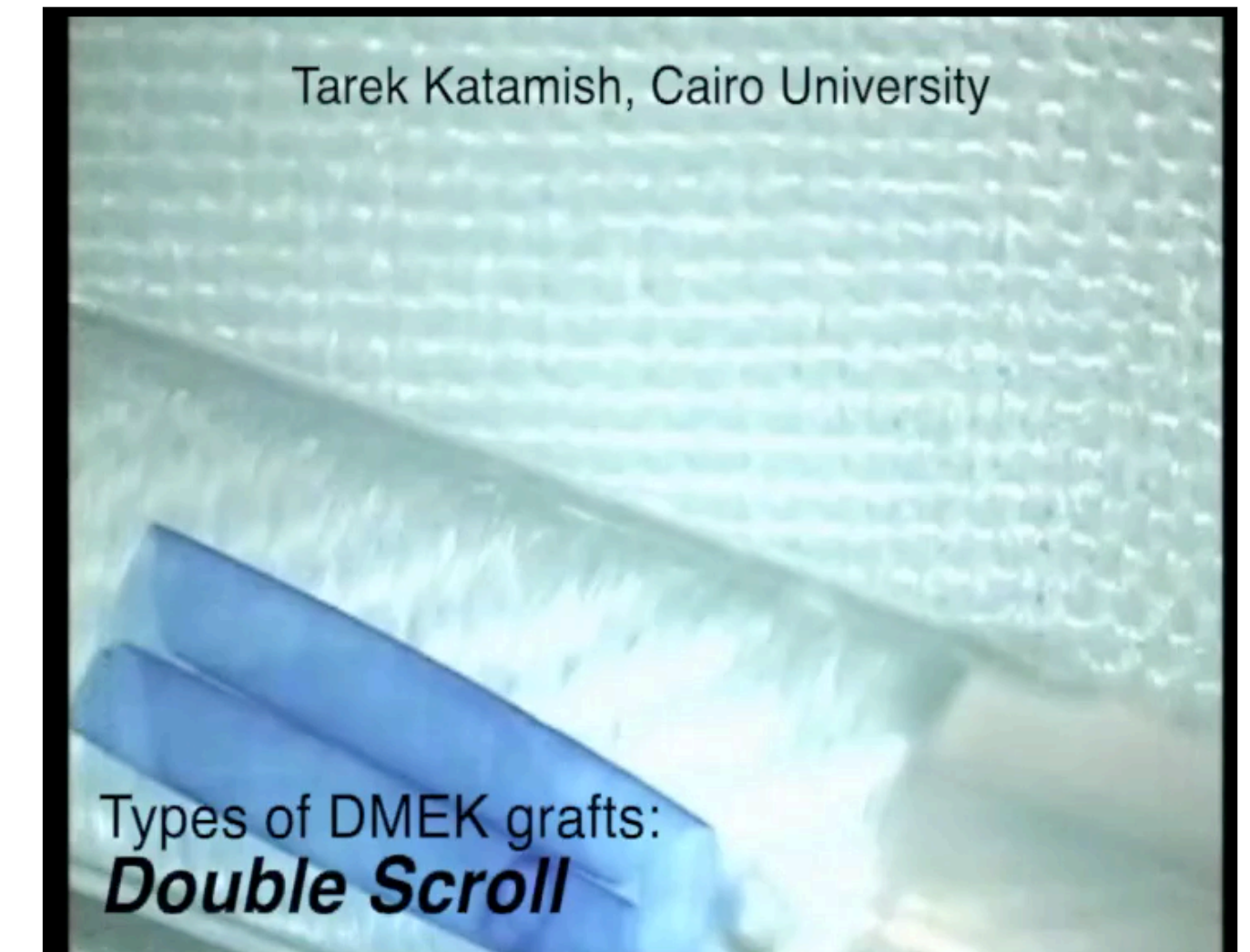
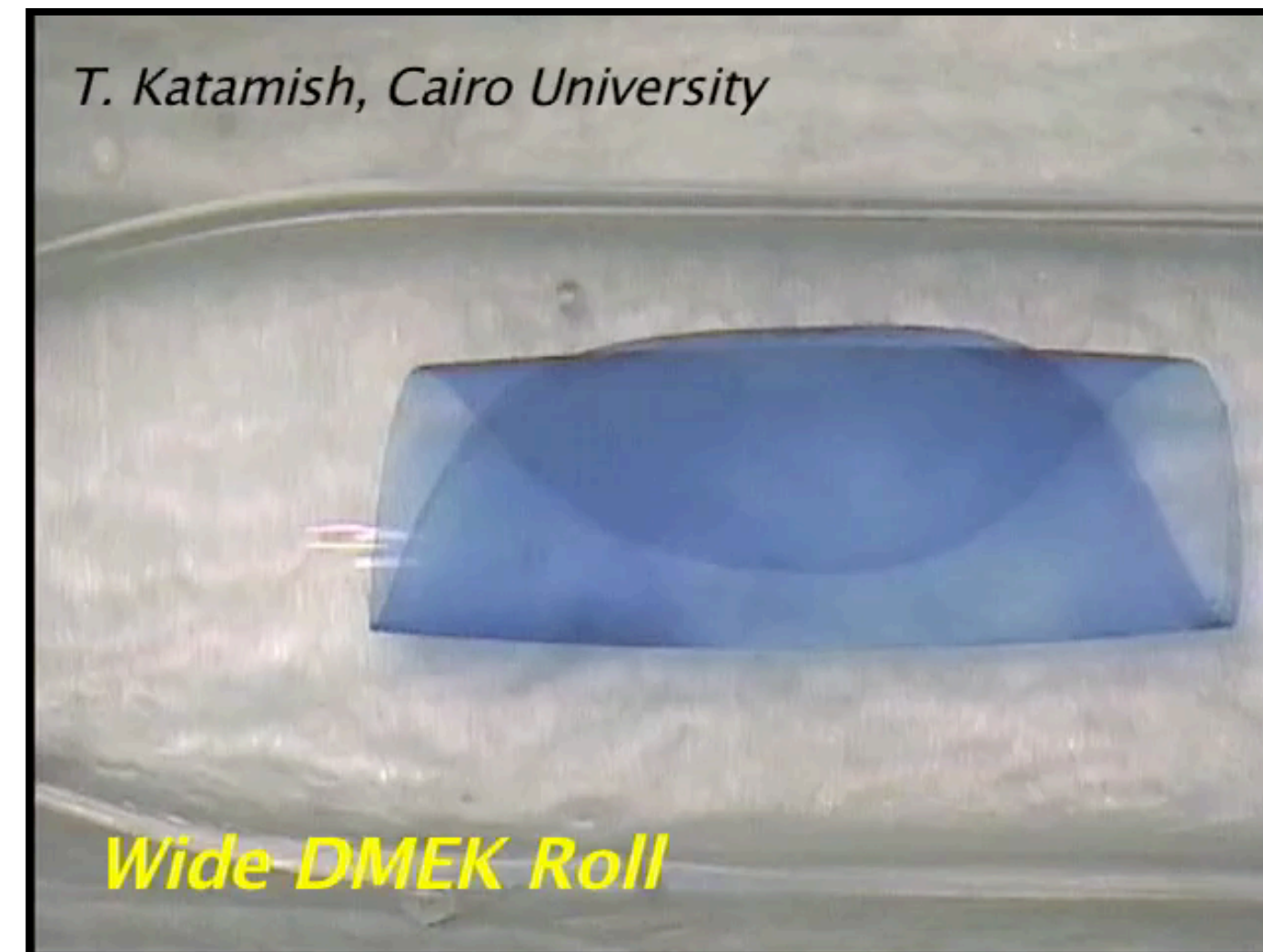
Recently

Endothelial Decompensation

- PBK (Pseudophakic bullous kertopathy)
- FED (Fuchs' Endothelial Dystrophy)



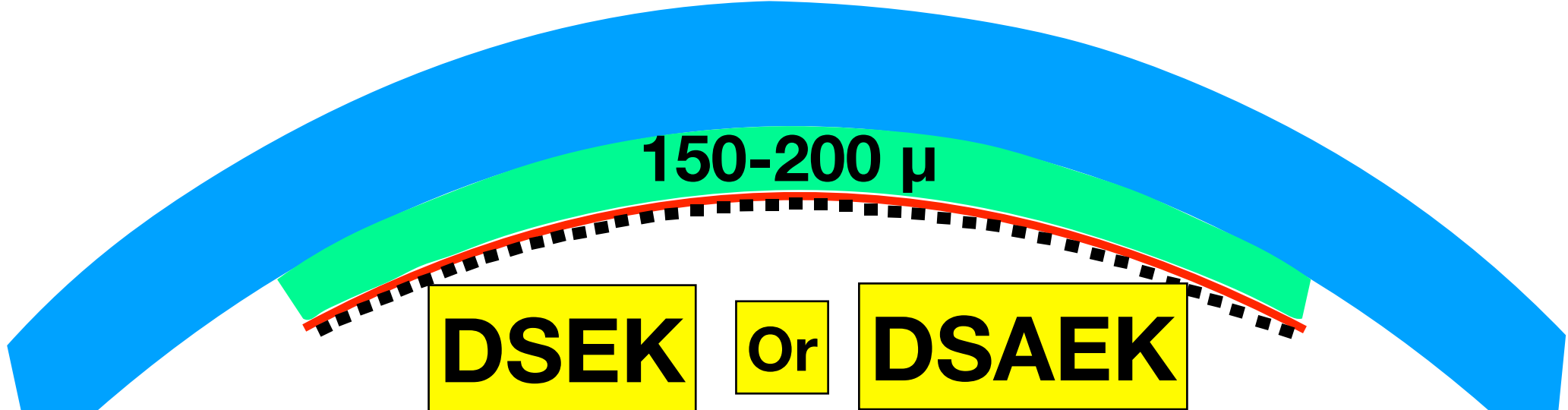
Tiny Fragile DMEK Tissue



Types & Evolution of Recent Endothelial Keratoplasty (EK)



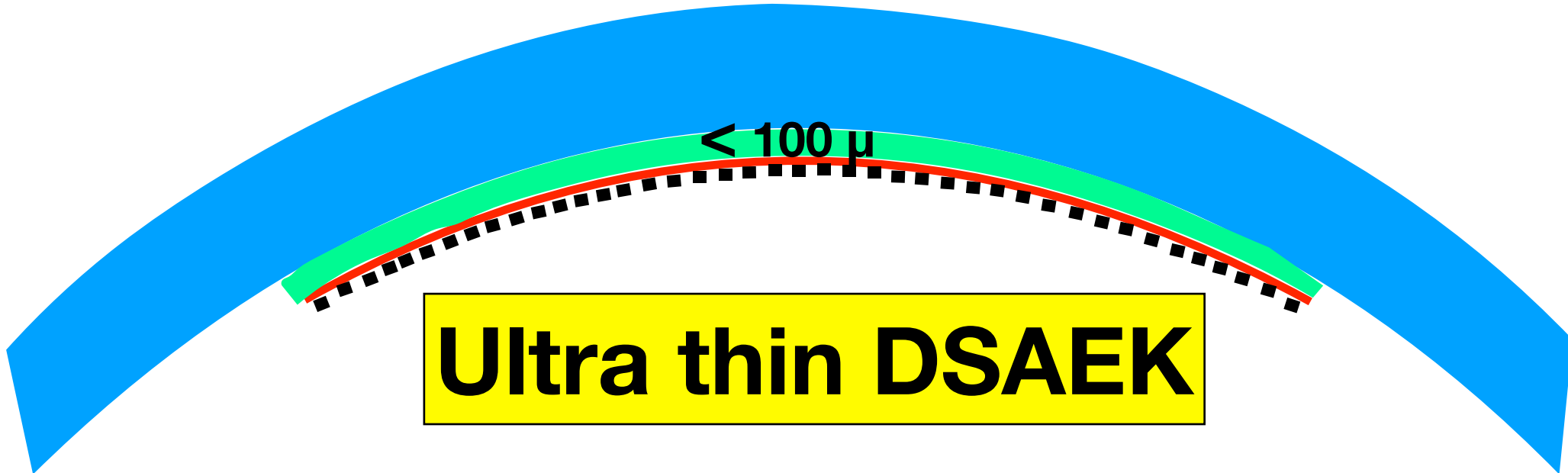
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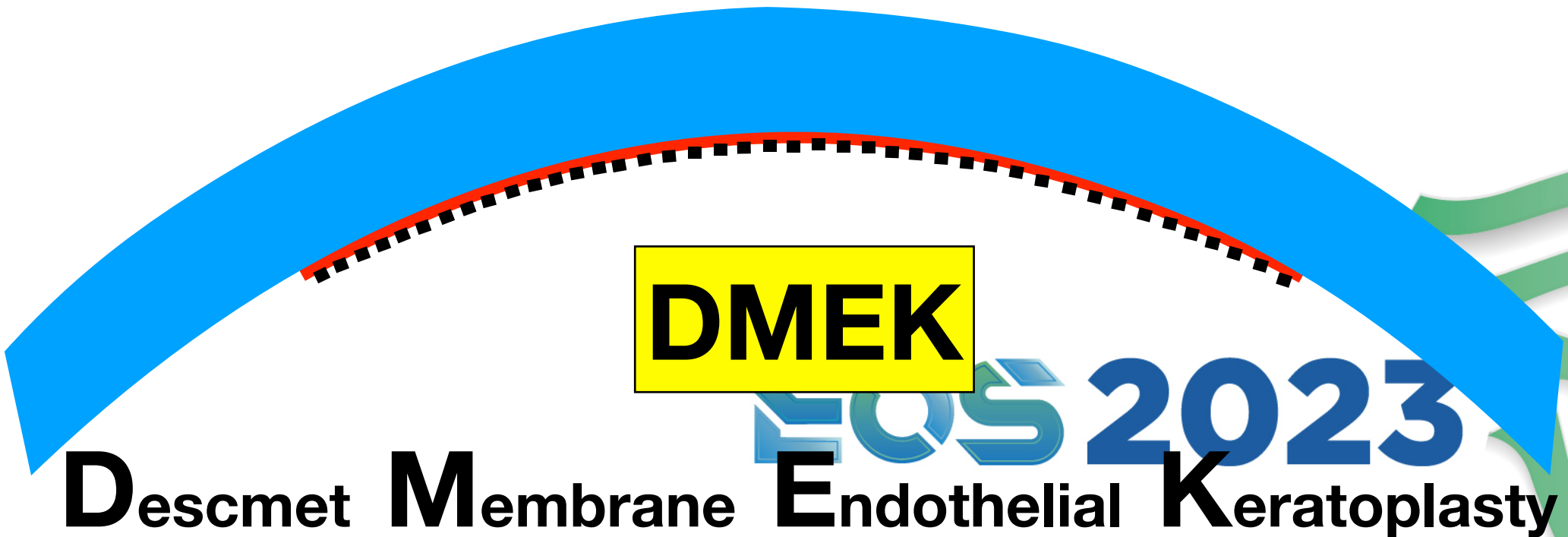
(Manual) Descmet **S**tripping **E**ndothelial **K**eratoplasty
(Automated) Descmet **S**tripping **A**utomated **E**ndothelial **K**eratoplasty

Comparable results to
DMEK

3

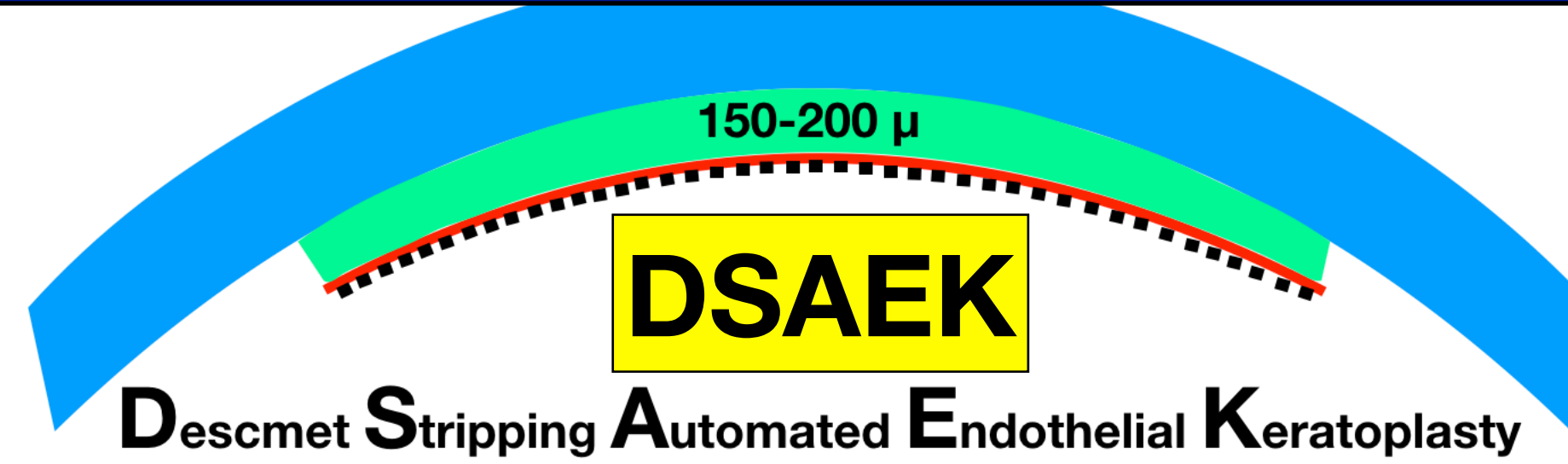


 **2**

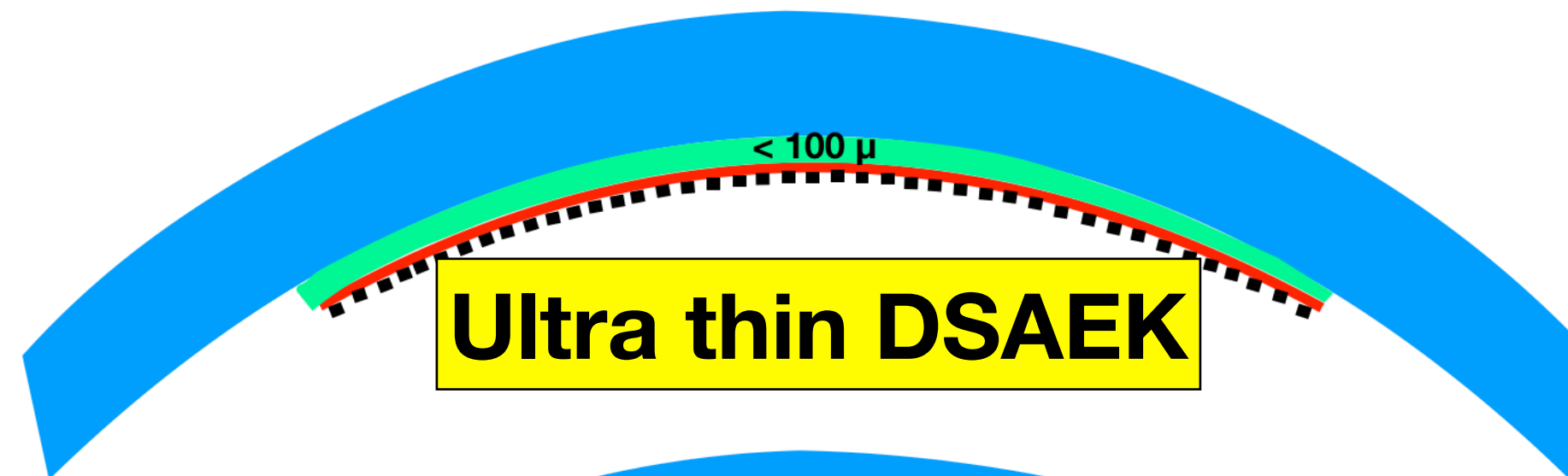


Types & Evolution of Recent Endothelial Keratoplasty (EK)

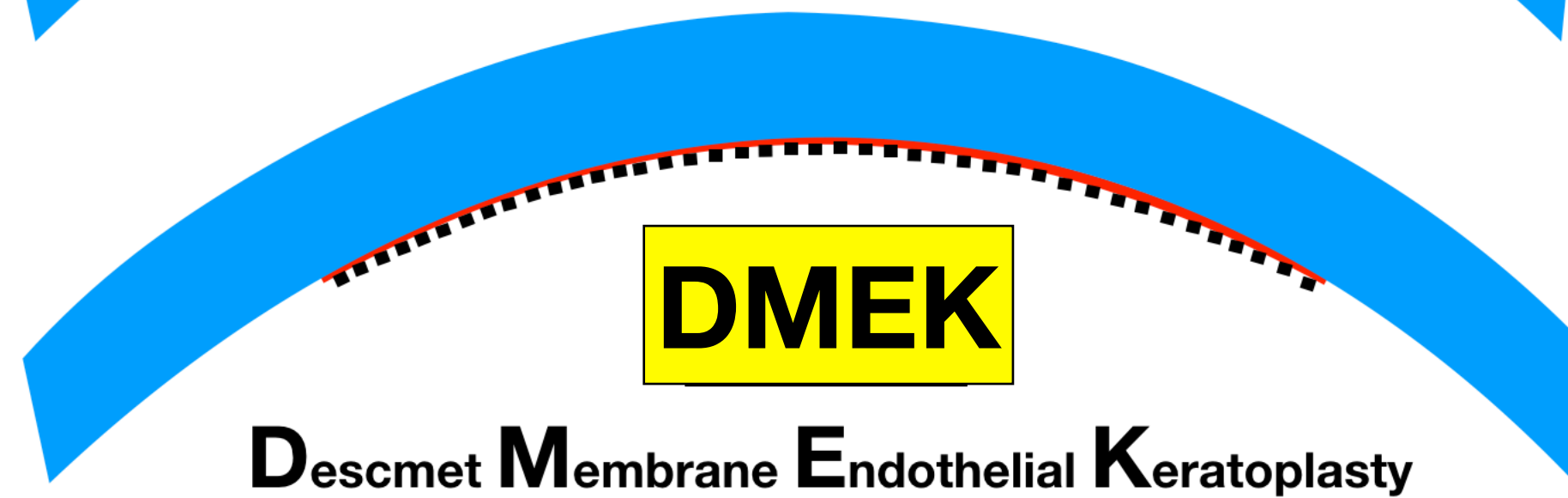
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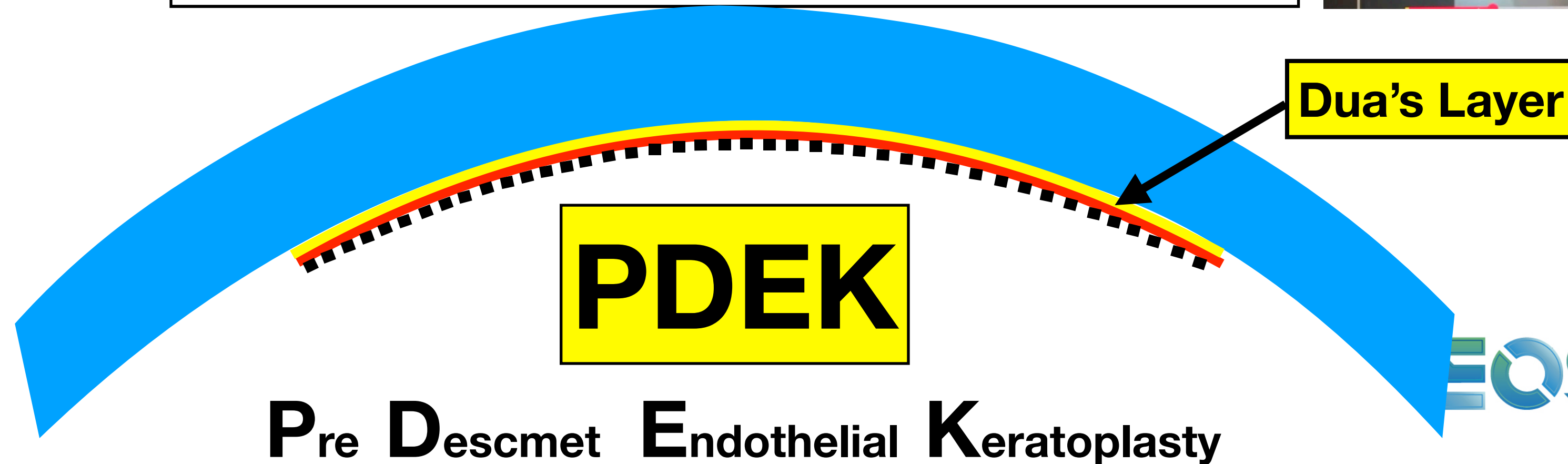
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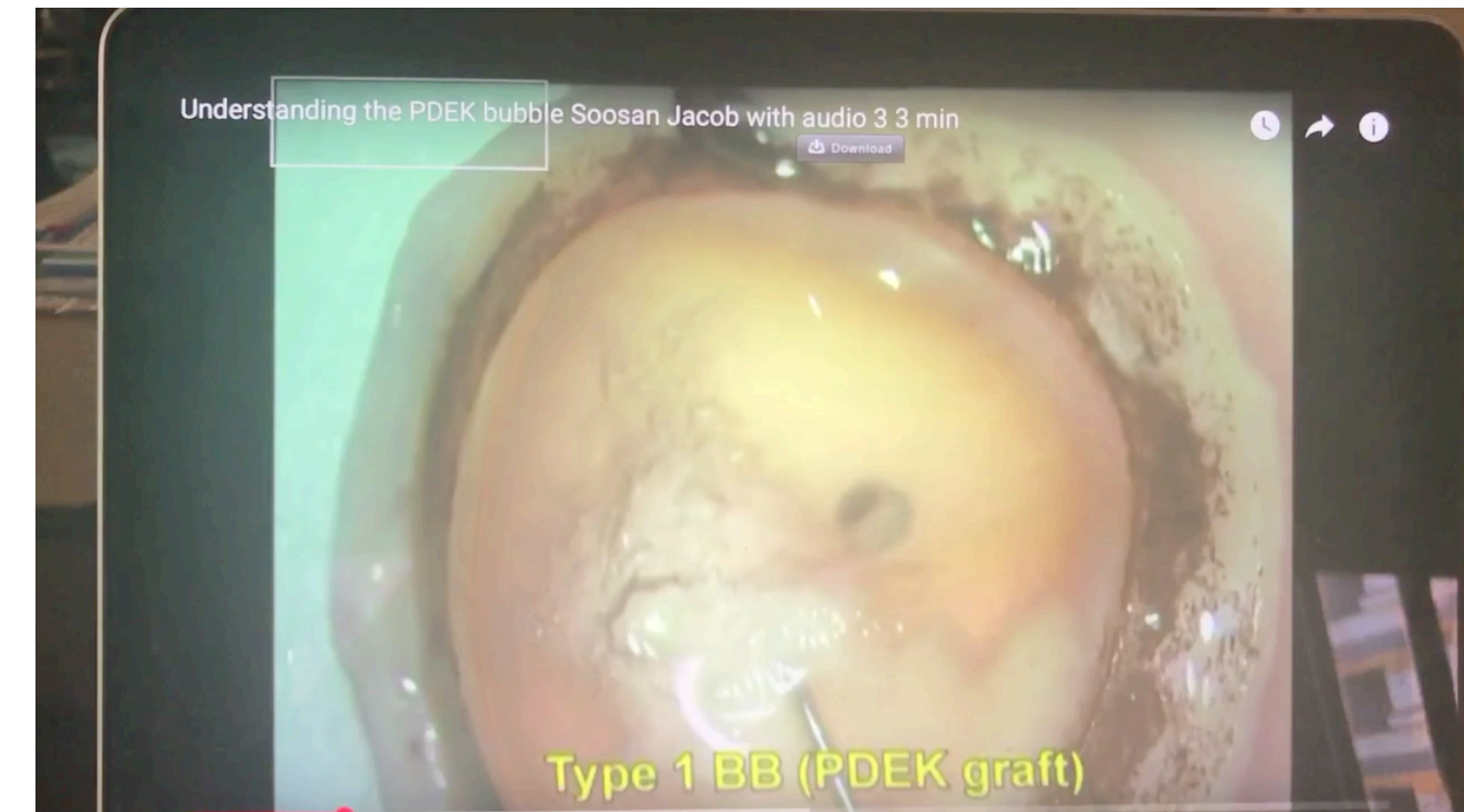
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4



BB Type 1



DSEK & DSAEK

DMEK

Ultra-thin DSAEK

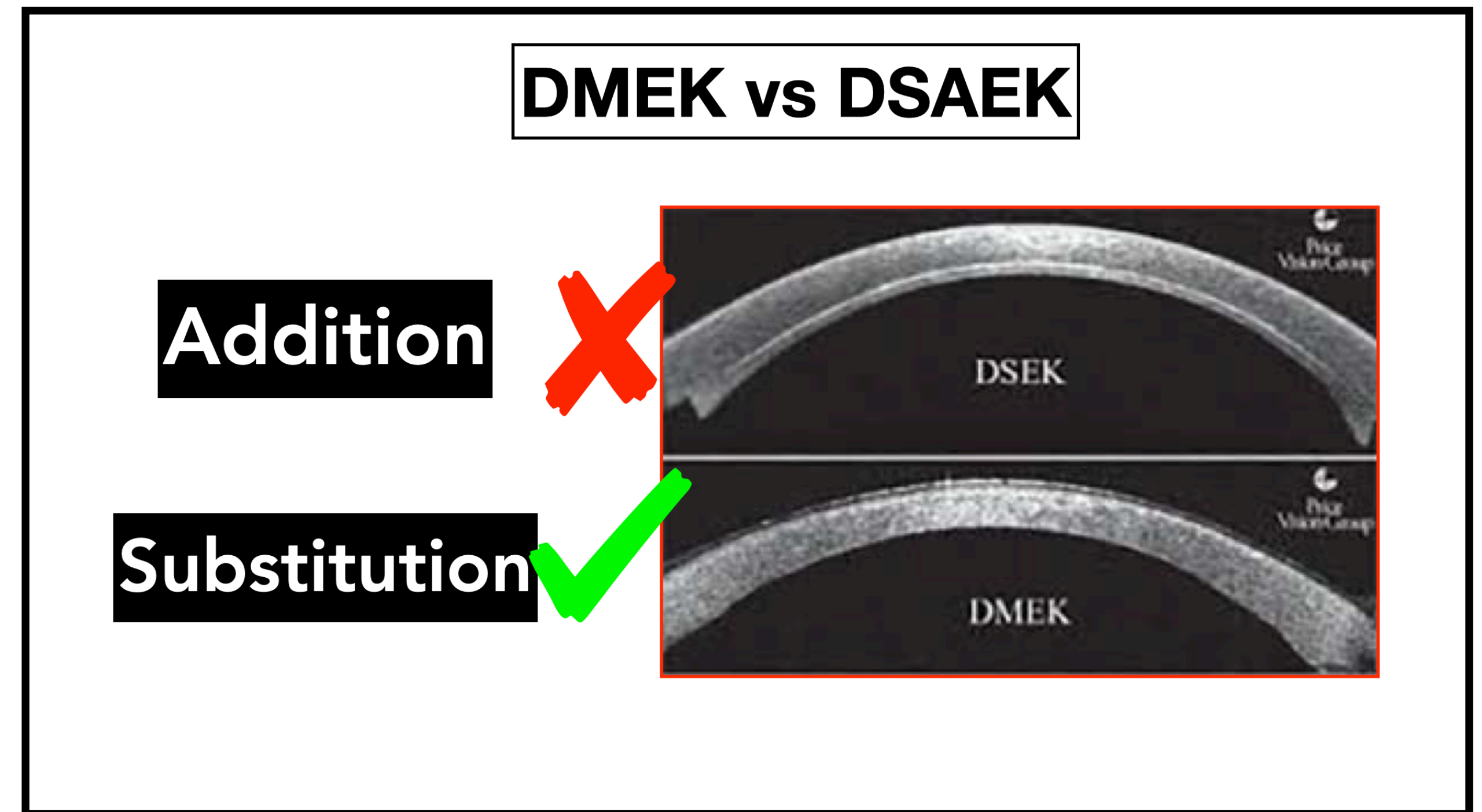
PDEK

Cultivated Endothelium??



DMEK

Is the **ONLY** surgical procedure
that provides
a true anatomic exchange
of **diseased** endothelium and DM
with **healthy** donor tissue





THANK YOU

See you next year

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