

Refractive Pupilloplasty

Skipping Corneal Surgeries !!

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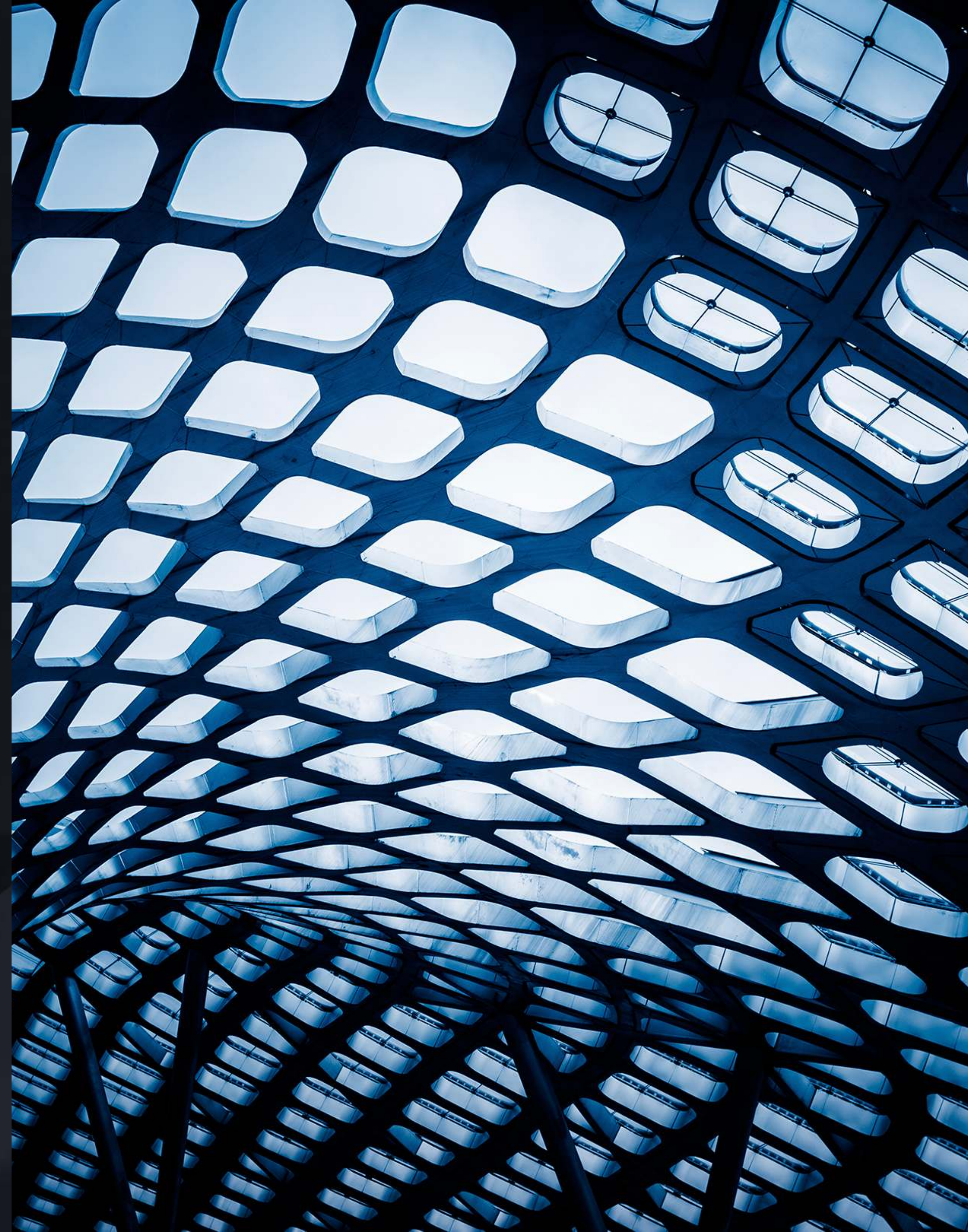
Cataract, Cornea & Refractive Surgeon

Head of Cornea & Refractive surgery Units

President of Egypt-Chapter of ISMSICS



No Financial interest



THE IDEA

Jack Is thinking about how to get out of the box

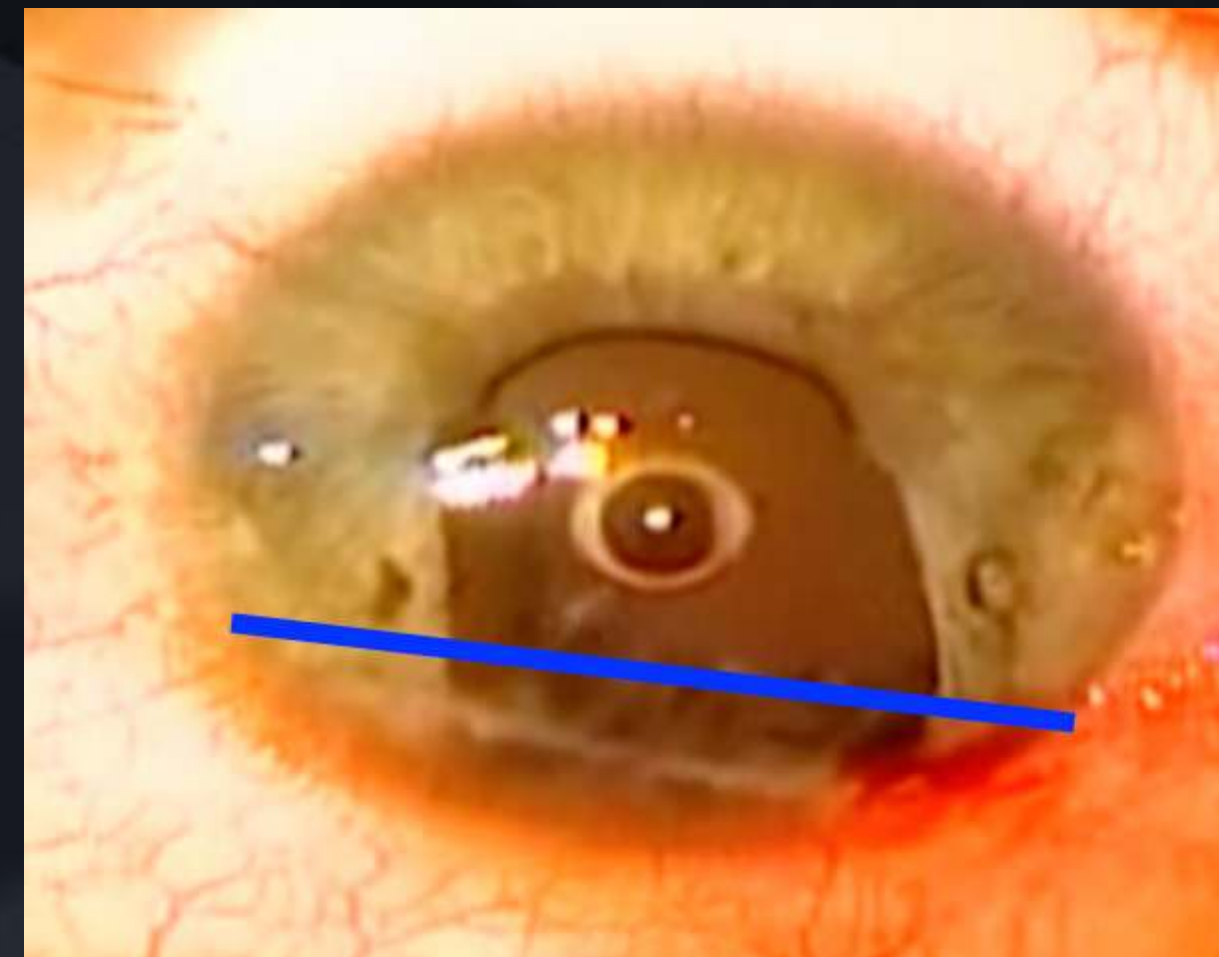
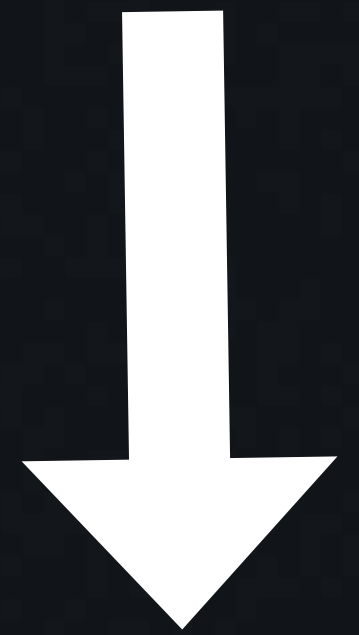
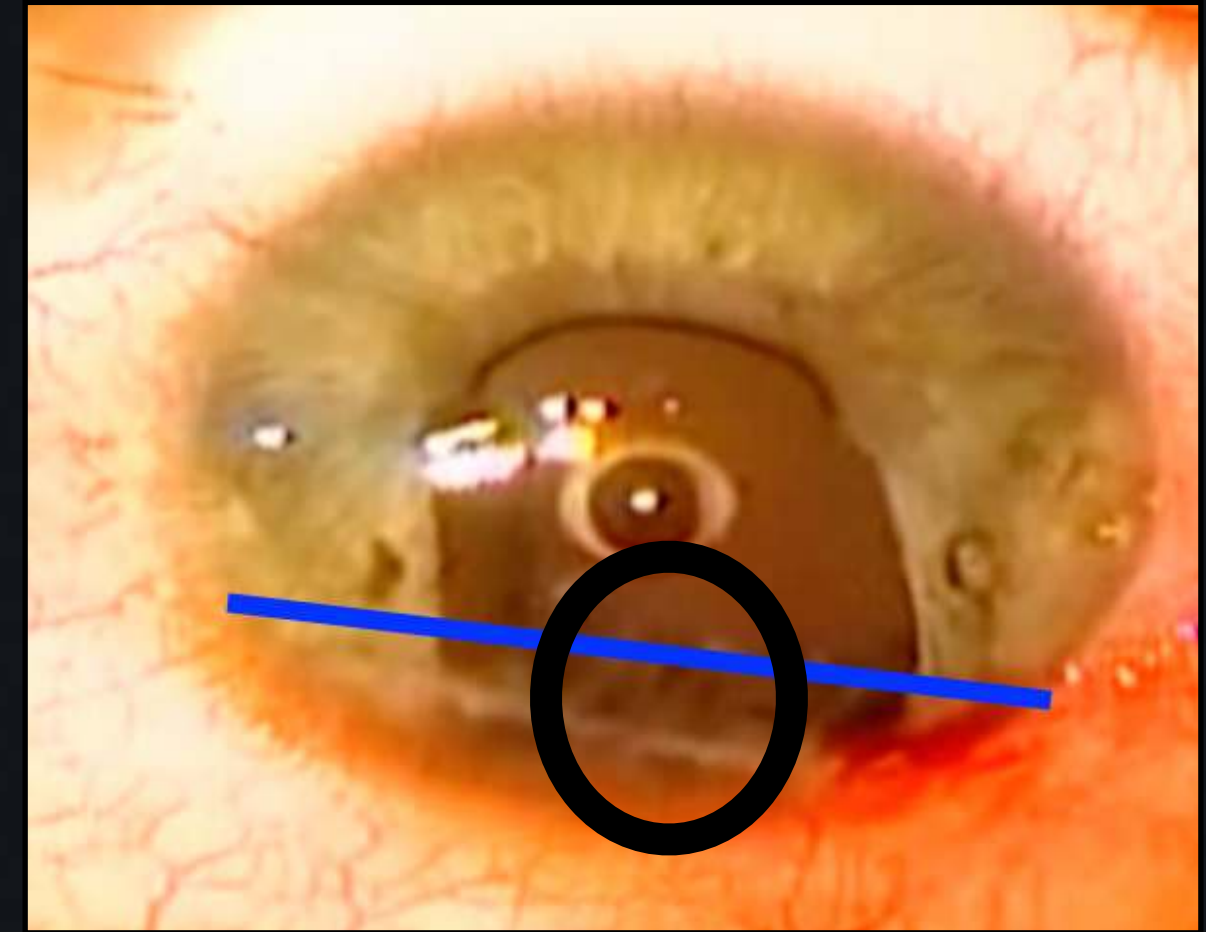
- If there is a paracentral corneal opacity
- If there is an eccentric graft or drawn pupil
- If there is a high degree of astigmatism after Keratoplasty
- Other similar optical/visual problems but you would like to do a simpler procedures

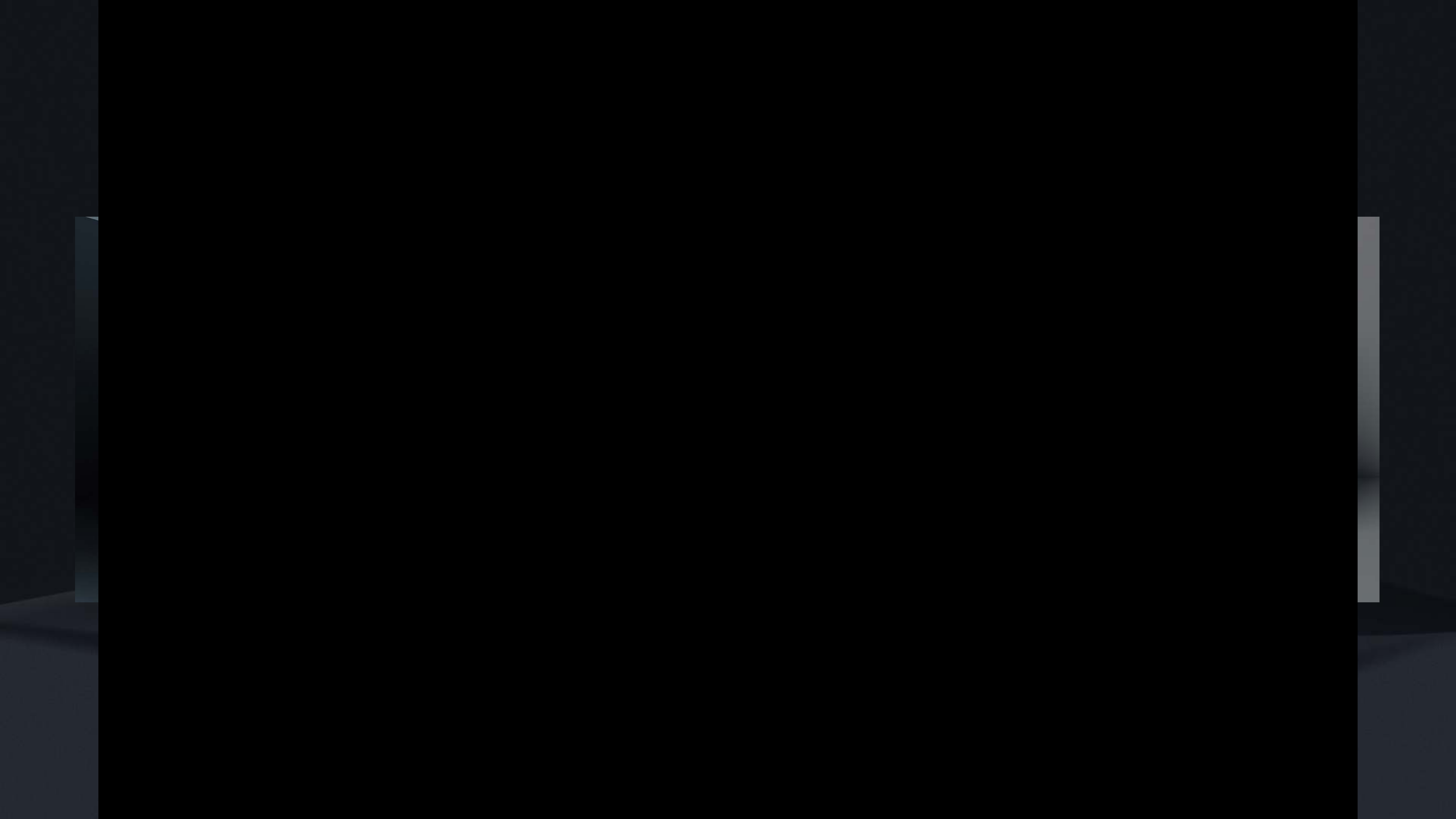
**Let's see these ideas
practically
In the coming videos !!**

CASE 1

From the bottom of the darkness !!

- 35 yrs old Male
- PH of RG, with repaired inferior transverse corneal wound from 8 to 4 o'clock
- UNVA=HM , without dilation
- BCVA= CF 50 cm with -8 cylinder
- Scar is very close to the center of drawn-down pupil







Before



After

Aim of surgery was not only the cosmetic reason

But also Physiological & Refractive goals

**UNVA = 6/36 !!!!!!!!!!!!!!!
BCVA = 6/18 with only -2.50 cylinder !!!!**

CASE 2

Keep the queen in the hodge !!

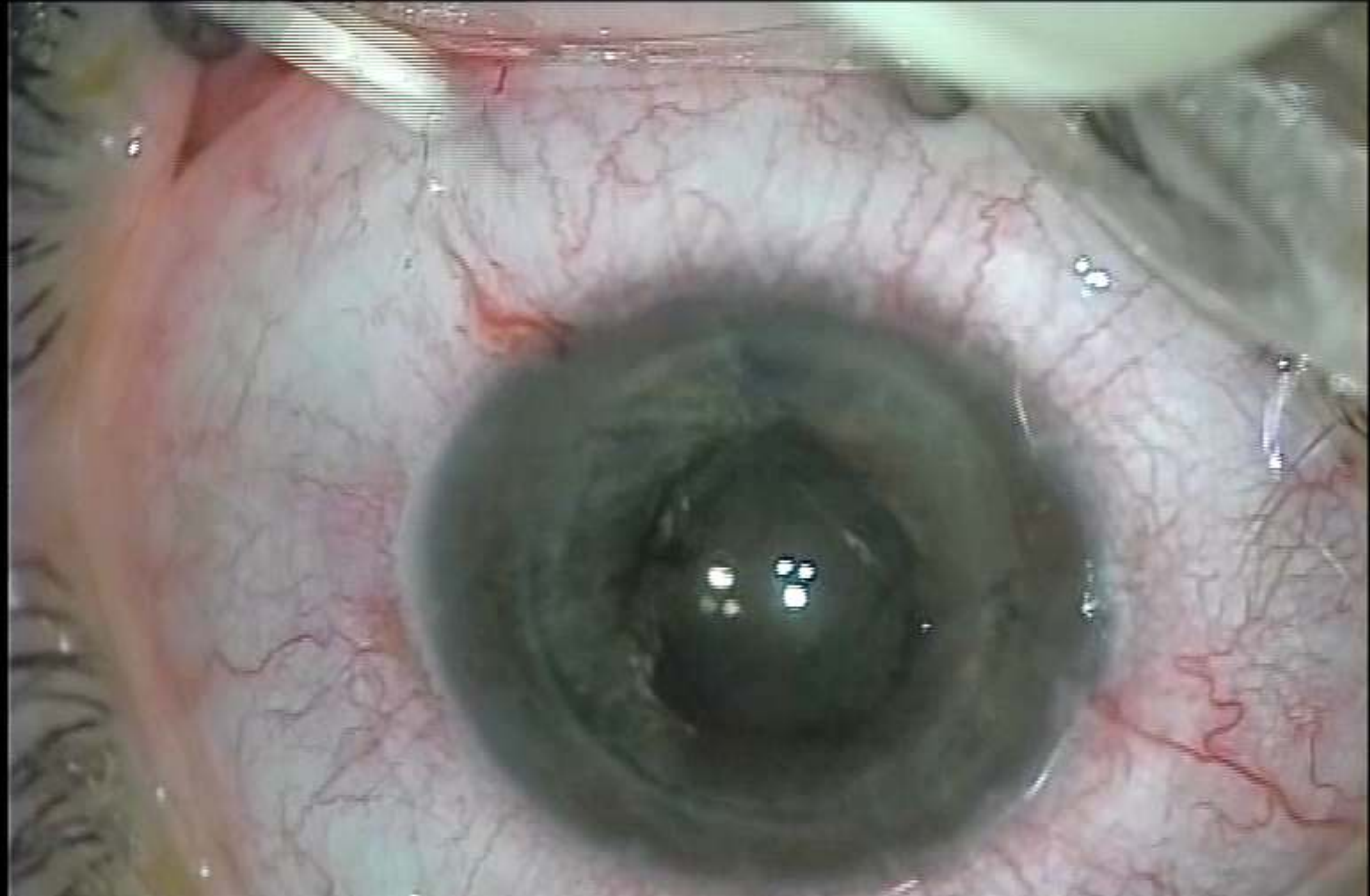
- After a successful DALK, a big air bubble in AC unfortunately hit the pupil sphincterS
- It caused unexpectedly **Urrets-Zavalía syndrome**
- In addition to the upsetting photophobia, it showed up the optical distortion of high corneal astigmatism.
- After a year, it ended up with 9 degrees of astigmatism where no glasses could correct.
- DALK was for KC, so LVC is not allowed.
- So I thought of an idea out of the box; **Pin-Hole Pupilloplasty.**

RX: -4/-9 X120

UN= 2/60

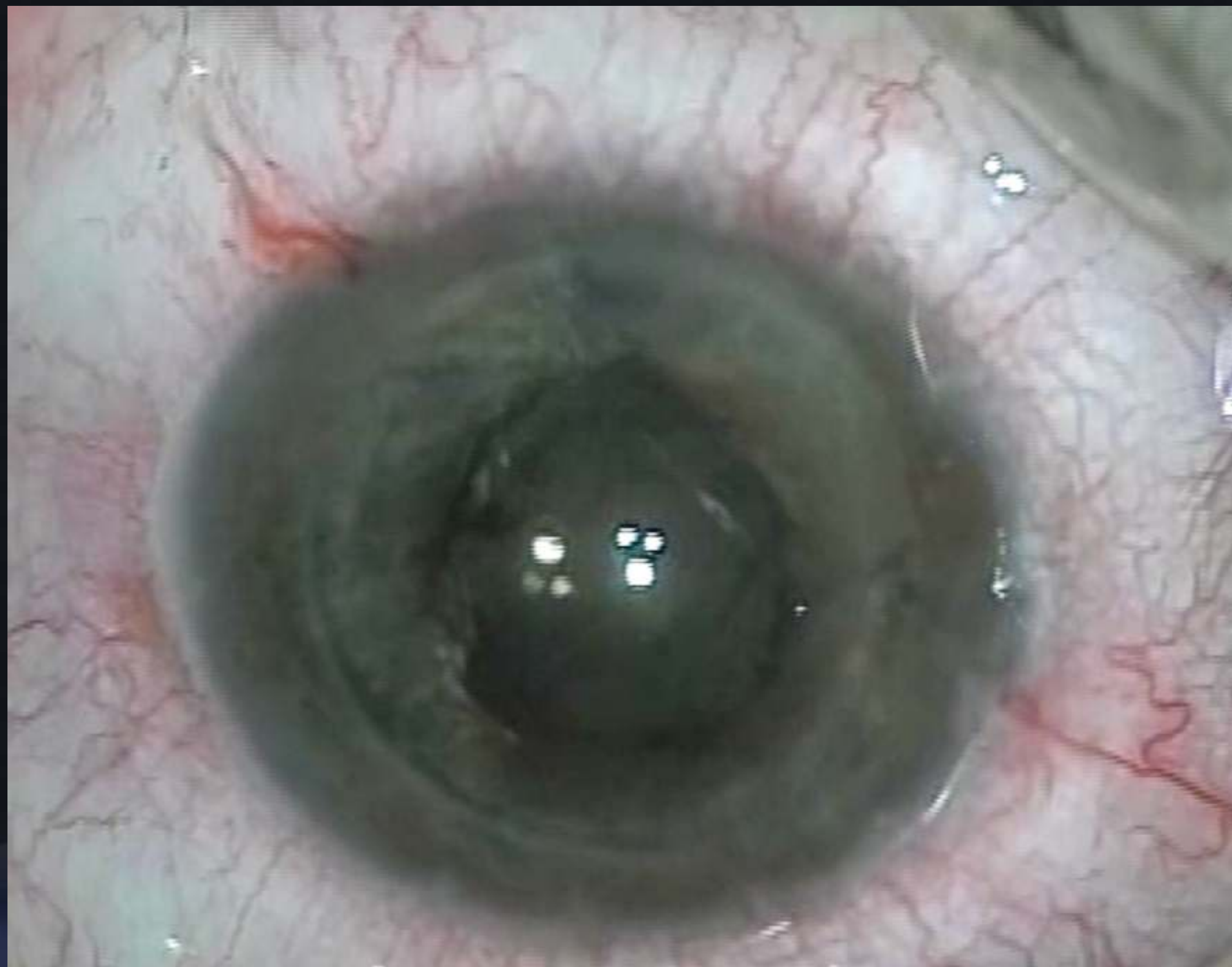
BCVA= 5/60





Hossam Ziada

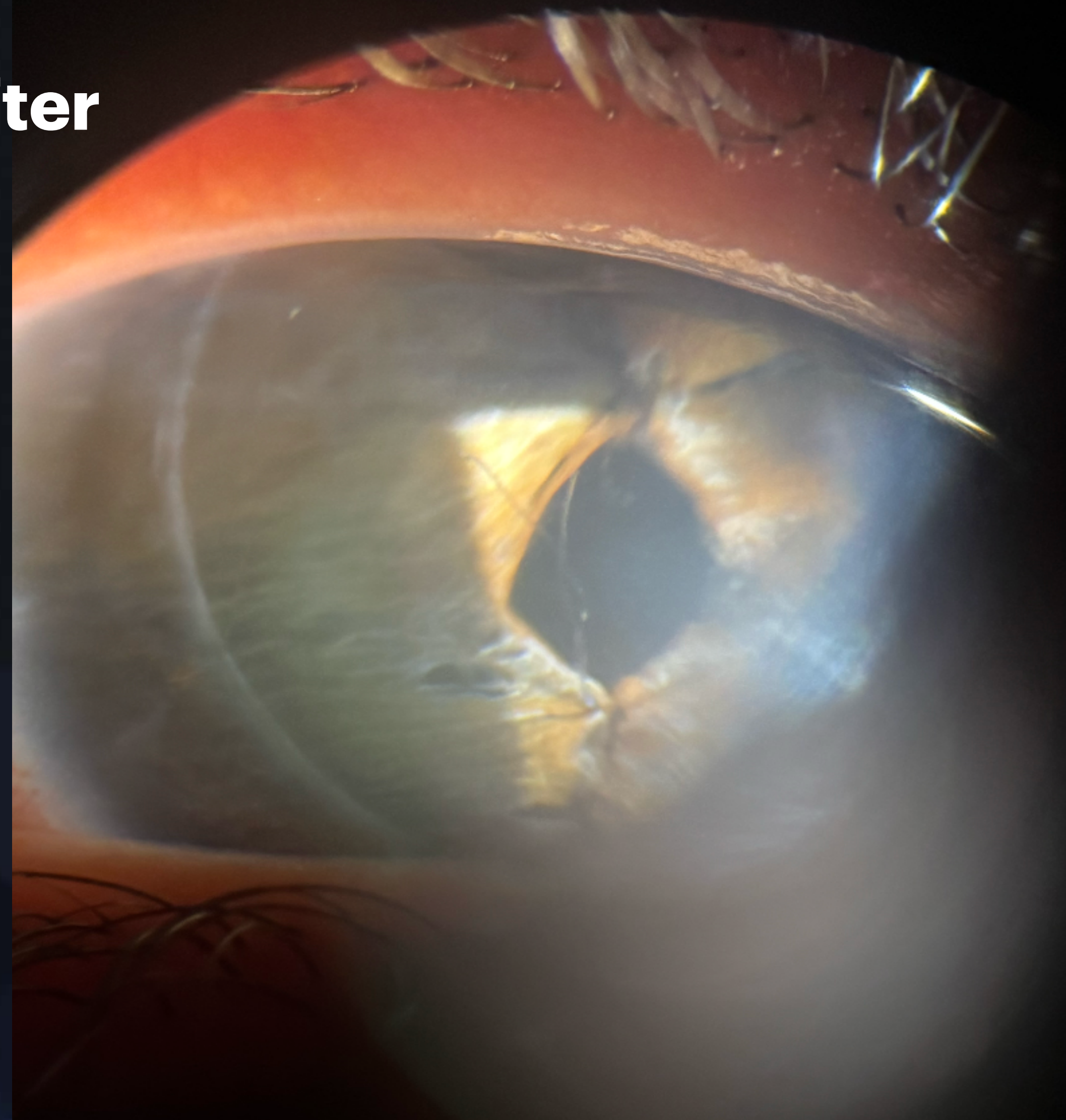
Before



UNVA= 2/60

BCVA = 5/60 with (Cyl - 8 D)

After



6/36

6/18 with (Cyl -2.50 D)

MESSAGE TO TAKE HOME

Pin-hole pupilloplasty

- Despite needing a surgical skill, it remains a simple and safe solution.
- It Can help overcome the optical side effects (shadows-halos- HOAs) of the corneal opacities and the very large pupil.
- Think simpler and weigh the risk / benefit ratio
- Finally, check your old box and think out of it !!!

Thank You !!

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