From Darkness to Distortion……

Complexities of Black Cataract with Corneal Ectasia

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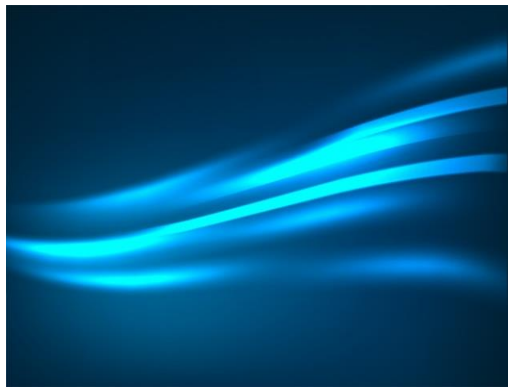


Introduction

- We report a case of advanced ectasia and cataract with guarded visual potential in a 65 year old female.
- Clinical examination and corneal topography confirmed the findings of advanced ectasia. IOL power was calculated and …… surgery was performed.
- This case report helps in better understanding of the challenges of cataract surgery and stresses upon following basic principles of ocular care and meticulous planning with constraint resources.
- Keywords-Corneal ectasia , cataract.

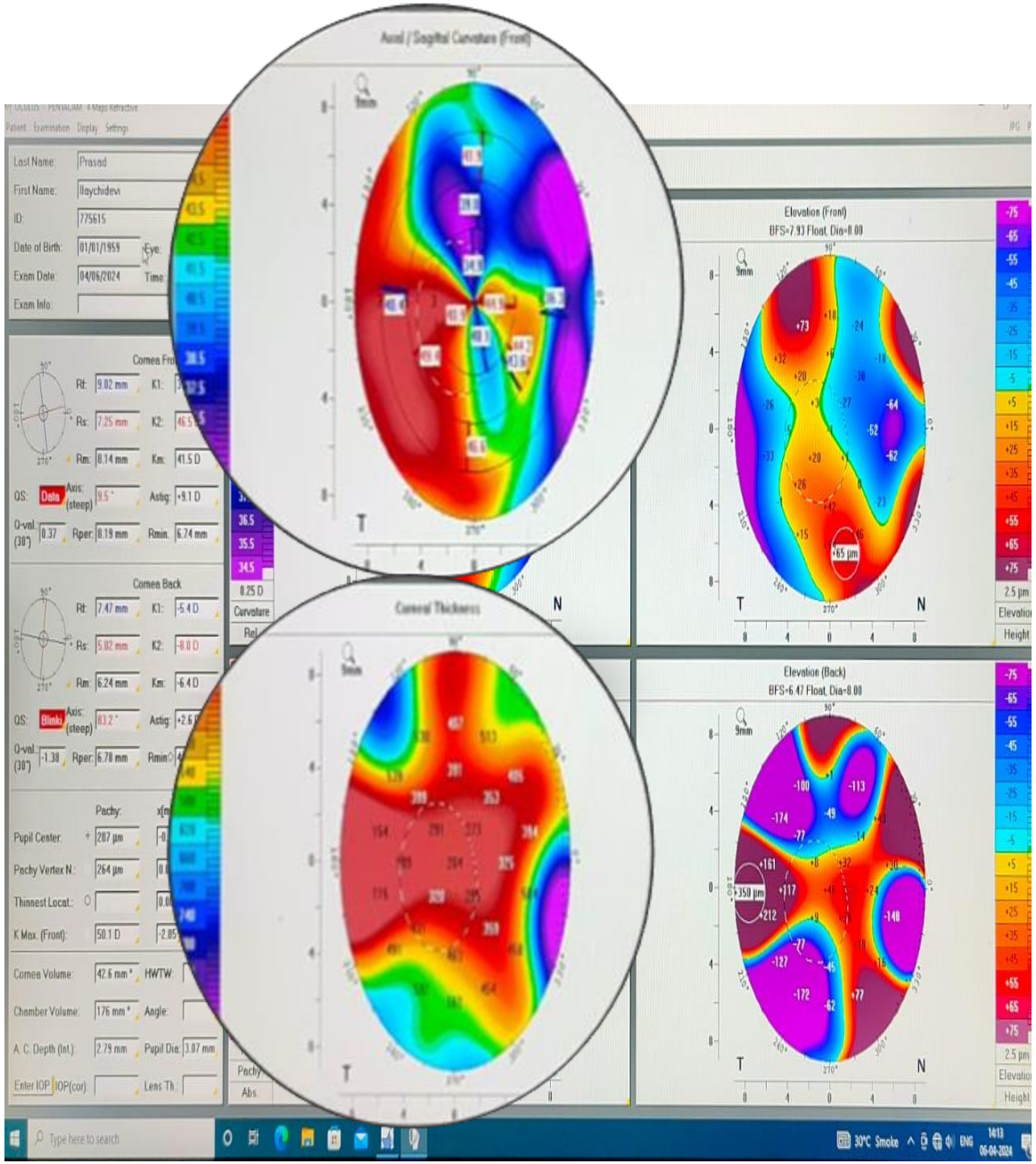
Case History

- 65 year old female presented with complains of decreased vision in both eyes
- H/o Cataract surgery in the right eye 5 years back

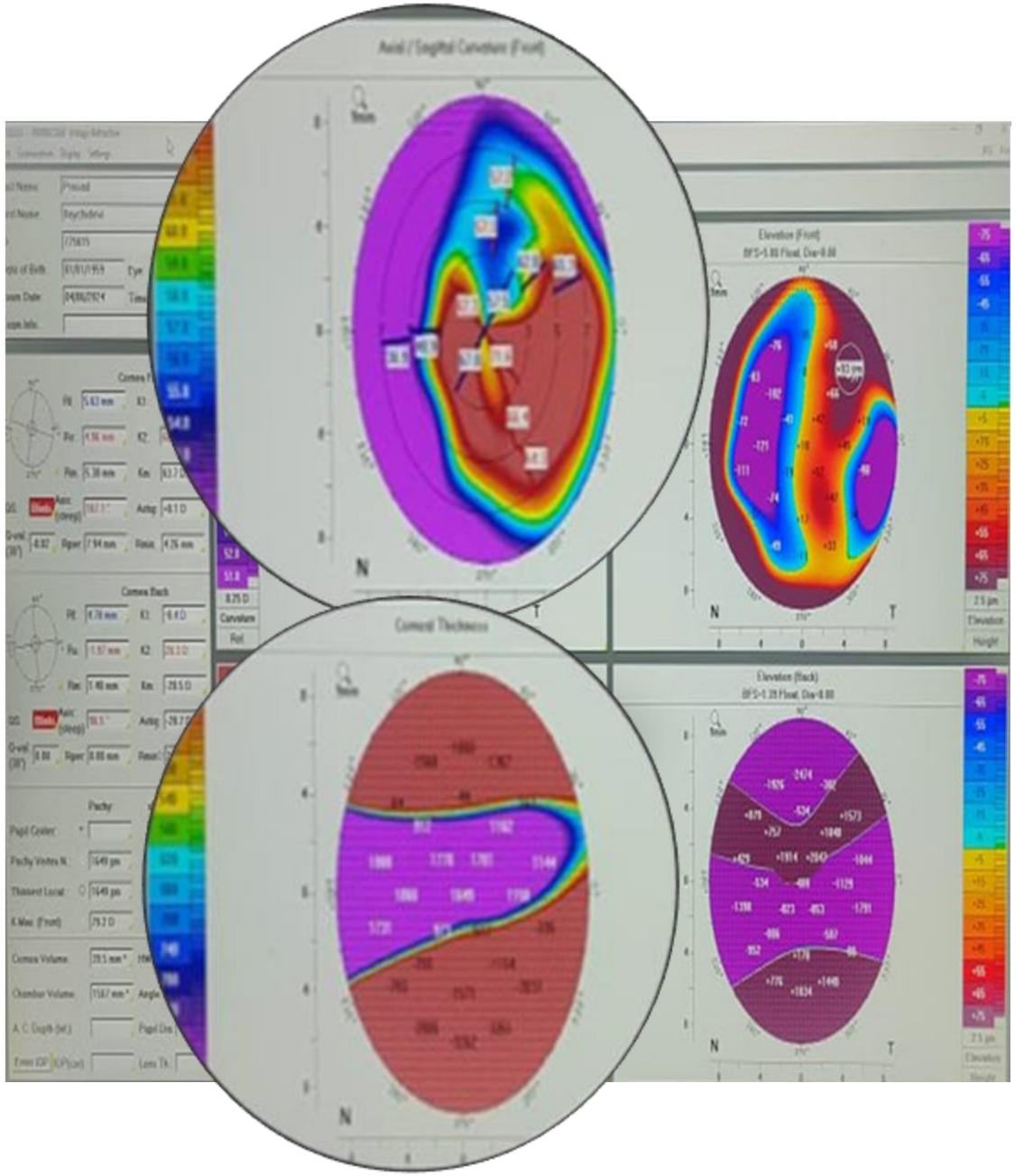
	Right eye	Left eye
Vision	FC 3 mt	PL + PR accurate
IOP-Schiotz	24	22
Cornea	Scar, with ectasia	Superior circular scar with thinning
Lens	Pseudophakia	Black cataract ,post dilation 5 mm pupil
Fundus	Myopic fundus with Peripallary atrophy	no view

Plan of Action

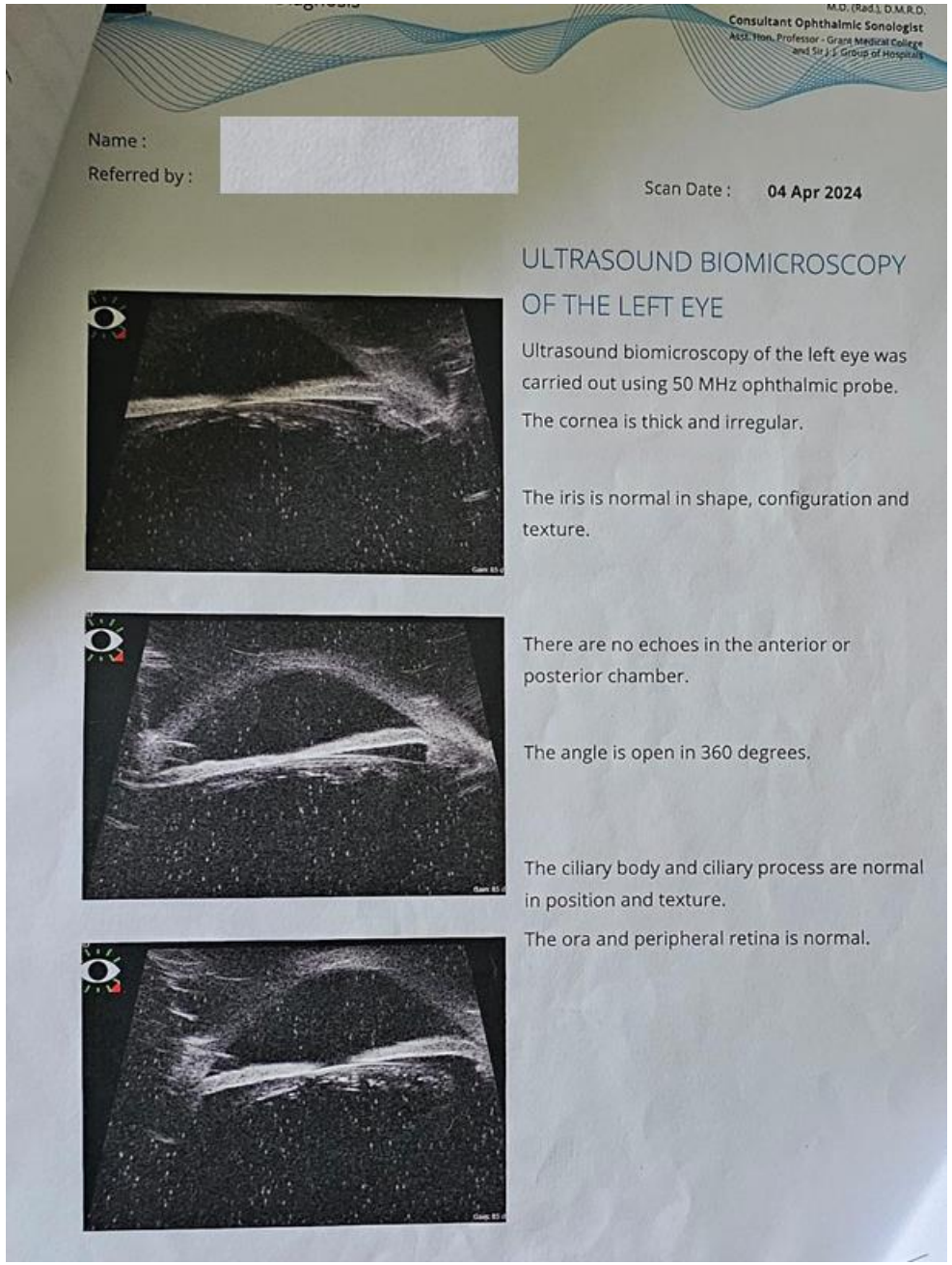
- Corneal topography
- Bscan for the left eye
- A scan



RE: K1:37.4
K2:46.5
KM :41.5
PACHY 287um



LE:K1-59.5
K2-68.7
KM:63.7
PACHY-167



M.D. (Rad.), D.M.R.D.
Consultant Ophthalmic Sonologist
Asst. Hon. Professor - Grant Medical College and Sir J. J. Group of Hospitals

Name :
Referred by :

Scan Date : **04 Apr 2024**

ULTRASOUND BIOMICROSCOPY OF THE LEFT EYE

Ultrasound biomicroscopy of the left eye was carried out using 50 MHz ophthalmic probe.

The cornea is thick and irregular.

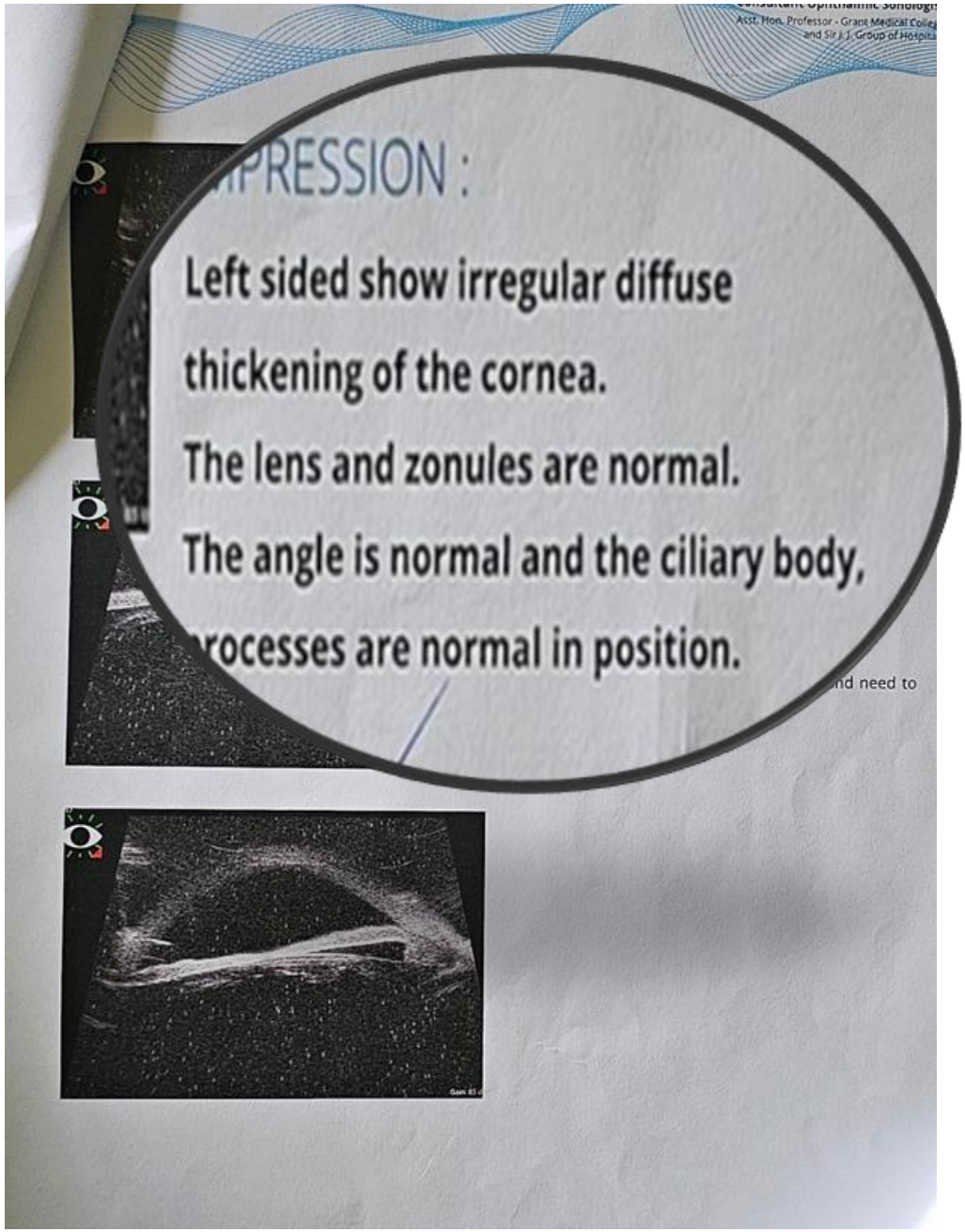
The iris is normal in shape, configuration and texture.

There are no echoes in the anterior or posterior chamber.

The angle is open in 360 degrees.

The ciliary body and ciliary process are normal in position and texture.

The ora and peripheral retina is normal.



IMPRESSION :

Left sided show irregular diffuse thickening of the cornea.

The lens and zonules are normal.

The angle is normal and the ciliary body, processes are normal in position.

B Scan

Impression:

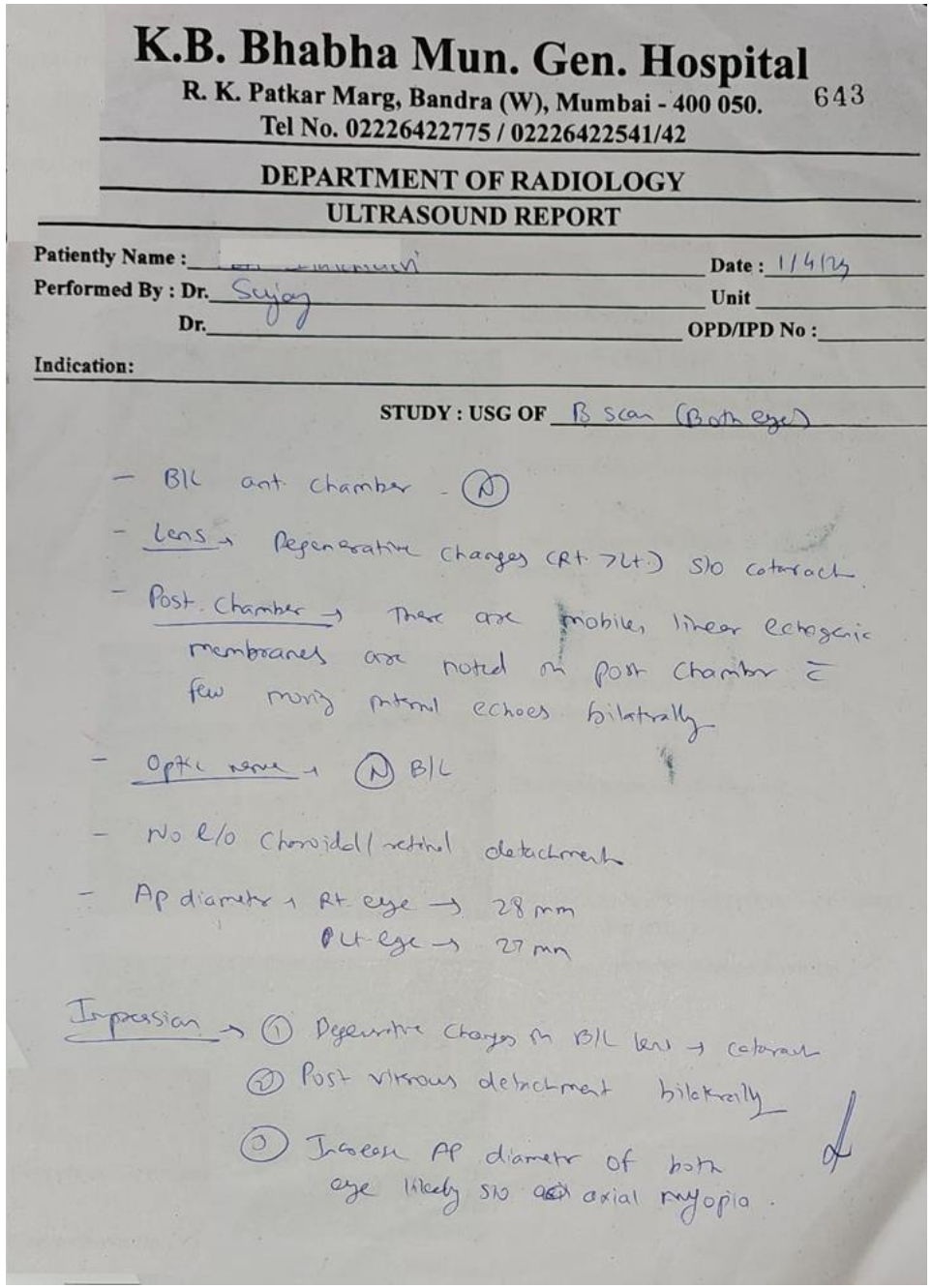
1.Degenerative changes b/l

Lens-suggestive of cataract -left eye

2.Posterior vitreous detachment

3.Increase AP diameter of both eyes

likely suggestive of axial myopia.



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DEPARTMENT OF RADIOLOGY
ULTRASOUND REPORT

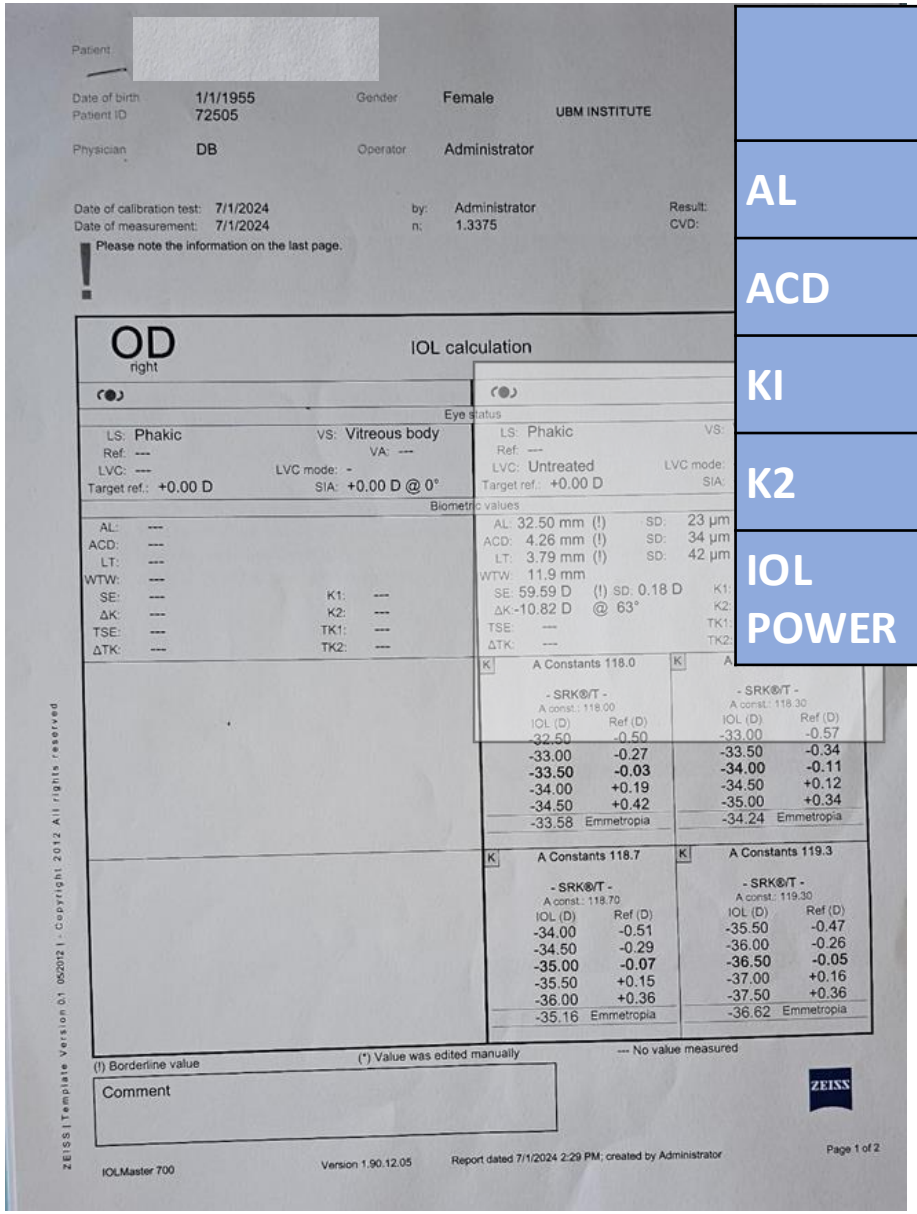
Patiently Name : [redacted] Date : 1/4/23
Performed By : Dr. Sujay Unit
Dr. OPD/IPD No :

Indication:

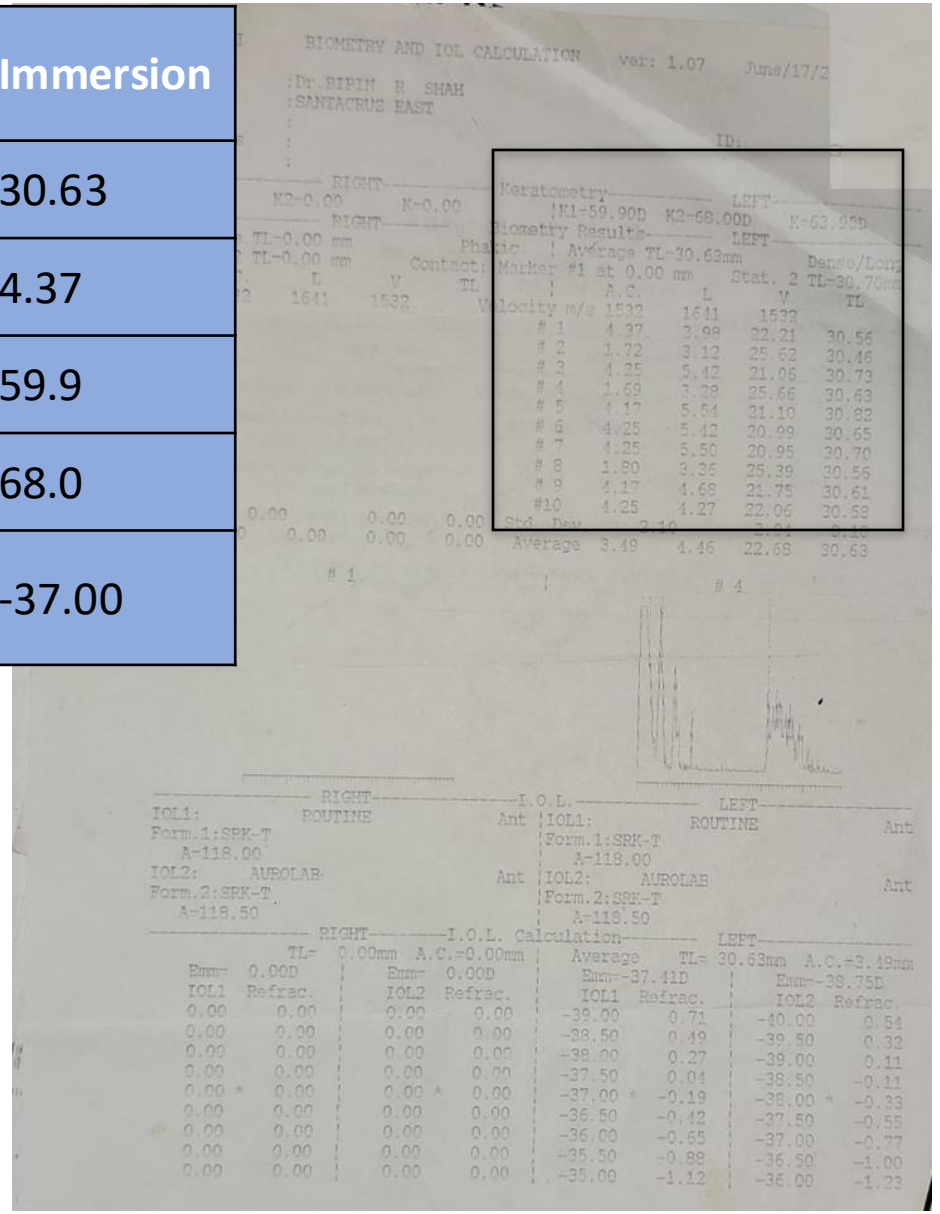
STUDY : USG OF B scan (Both eye)

- B/L ant chamber - (N)
- Lens → Degenerative changes (Rt > Lt) s/o cataract
- Post. Chamber → Thin axe mobile, linear echogenic membranes are noted in post chamber & few moving internal echoes bilaterally
- Optic nerve → (N) B/L
- No e/o choroidal/retinal detachment
- Ap diameter → Rt eye → 28 mm
  Lt eye → 27 mm

Impression → (1) Degenerative changes in B/L lens → cataract
(2) Post vitreous detachment bilaterally
(3) Increase AP diameter of both eye likely s/o axial myopia.



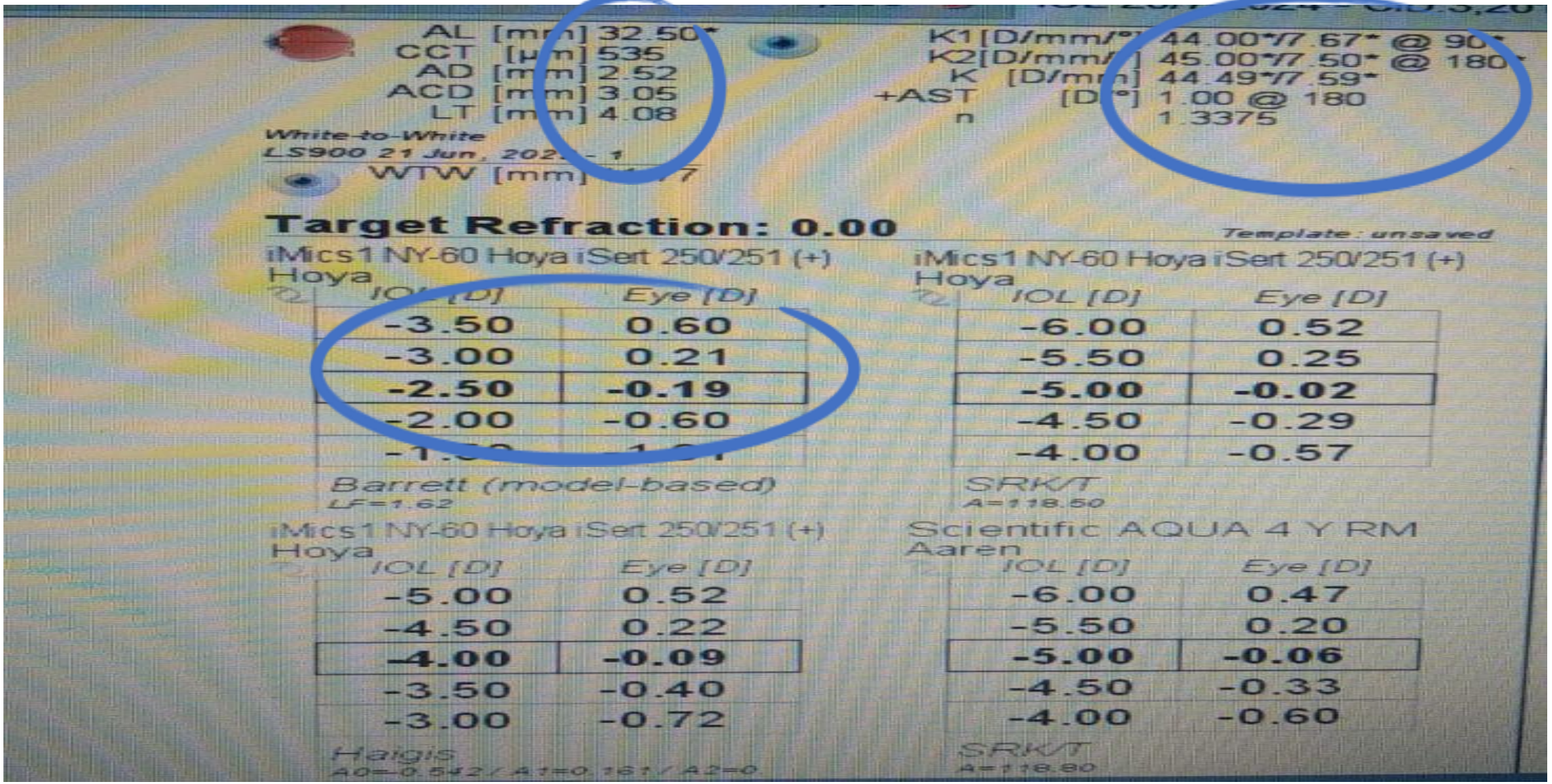
	IOL Master	Immersion
AL	32.50	30.63
ACD	4.26	4.37
KI	54.67	59.9
K2	65.48	68.0
IOL POWER	-33.50	-37.00



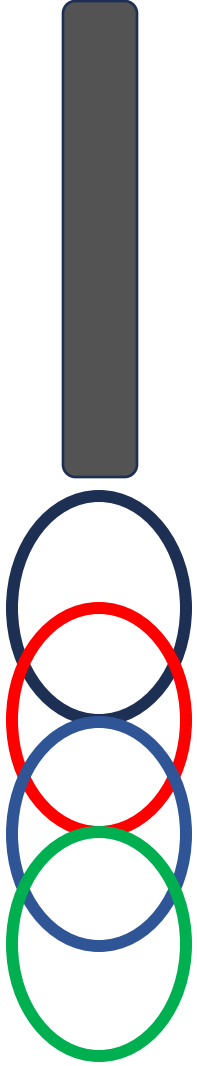
WHAT NEXT

- Cataract extraction
- IOL Power Calculation
- Optical Keratoplasty with or without Cataract extraction

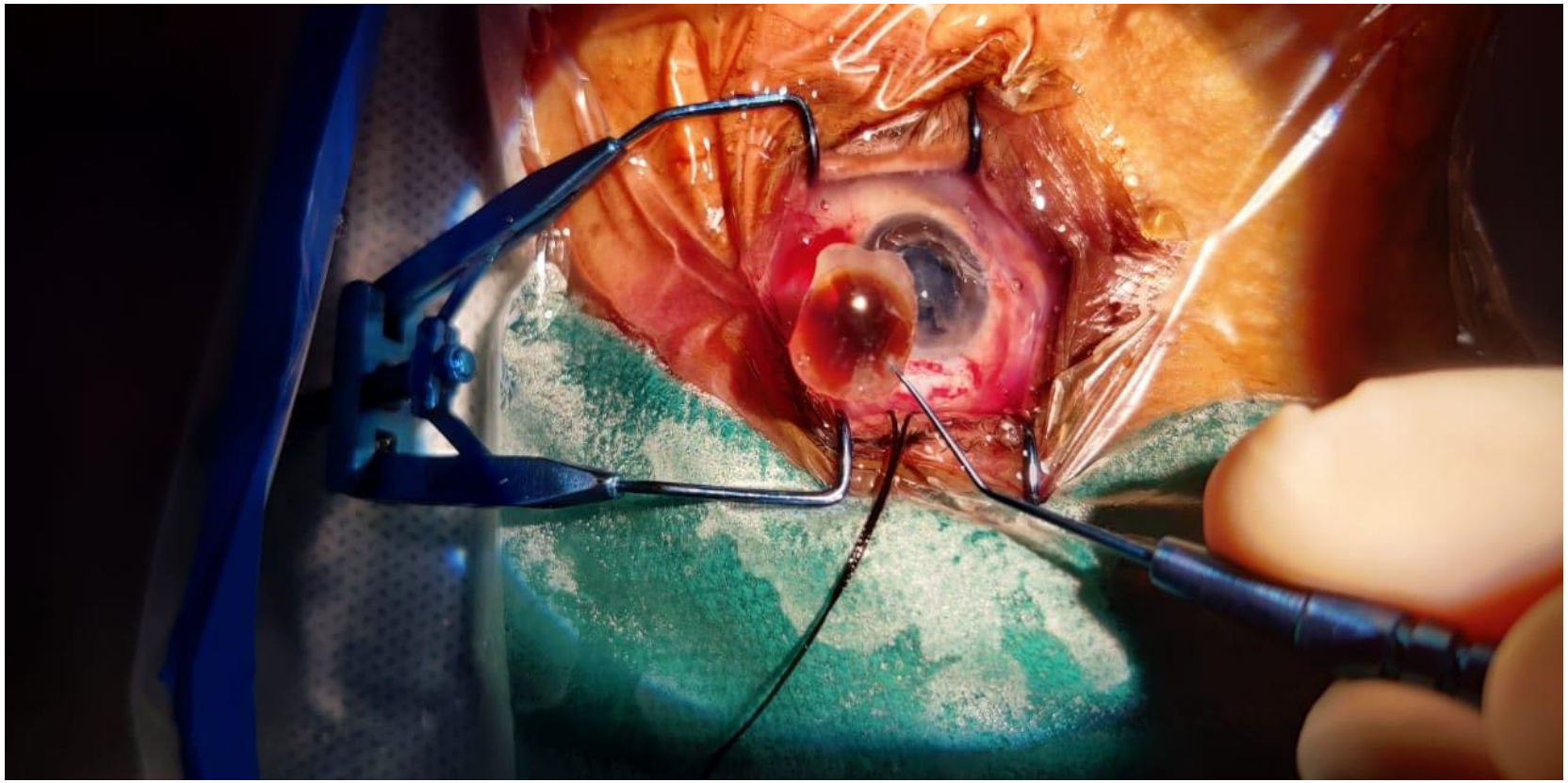
IOL Power calculated

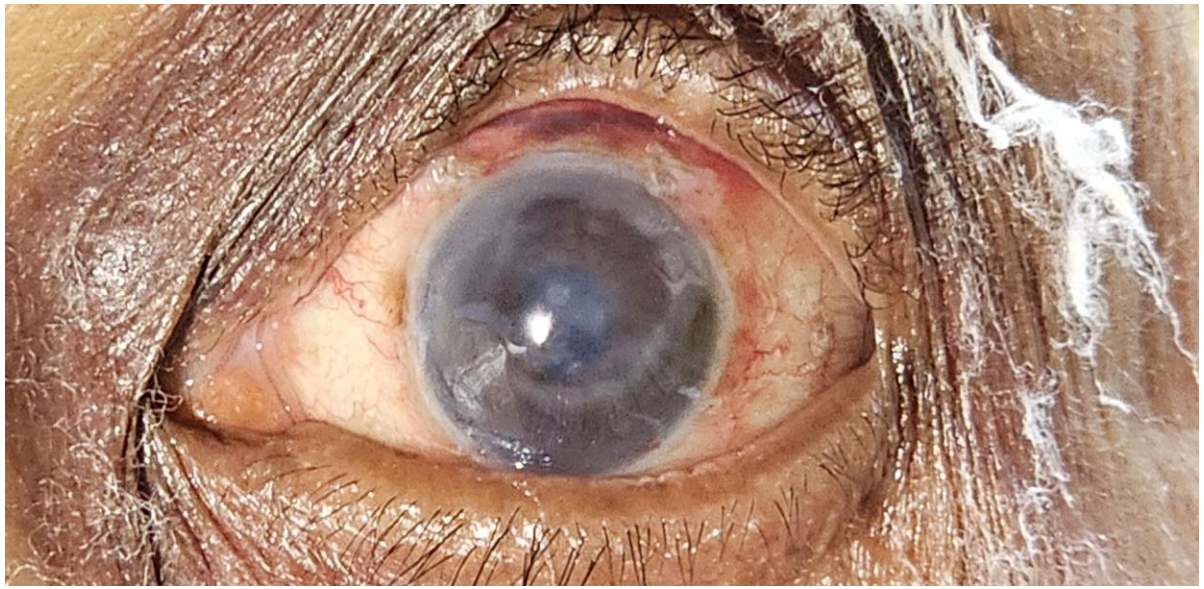


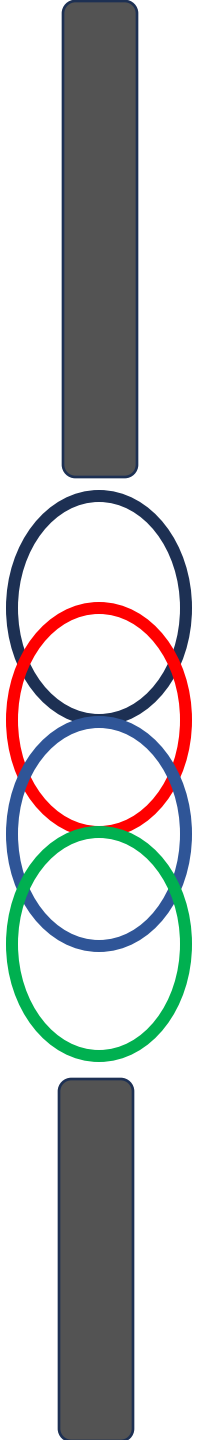
Intraop Considerations



- Poor Visibility
- Phaco versus SICS
- Poor dilation
- IOL Power:Suprises ???







- Post op
- Stable
- Vision >3MT
- Fundus- Myopic disc with CR atrophy involving macula

ALL'S
Well, that Ends Well.

Thank You

We would like to thank Dr. Deepti Chauhan, HOD- Ophthalmology