



Al-Azhar University



Egyptian Ophthalmological Society

*When **Not** To Use Premium IOLs*

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Independence



Cone of Sturm → → → Circle of Minor Diffusion

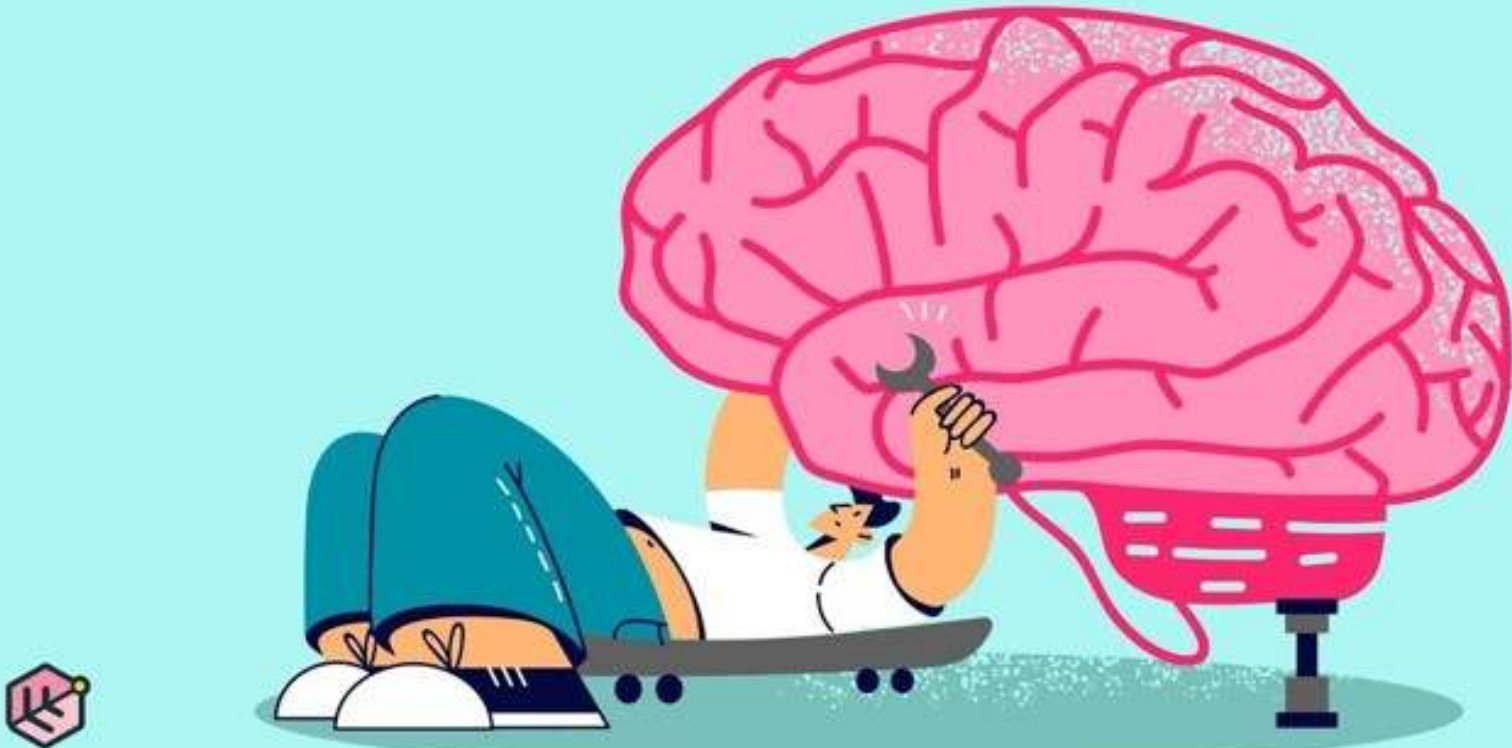


The 10 Commandments



1- Preop. Chair time **Category**

Neuro Adaptation



2- Personality

- Aggressive
- Perfectionist



2- Demand

Meticulous

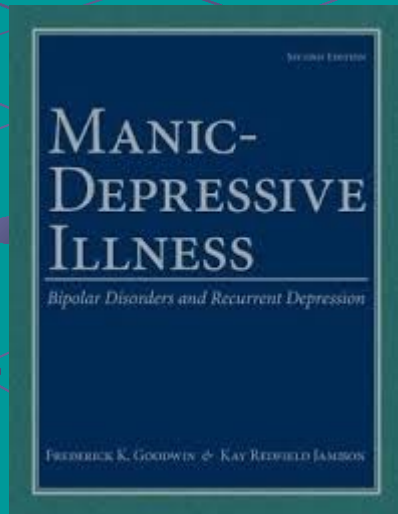


Easy-going



3- Anti - depressant therapy (or even was)

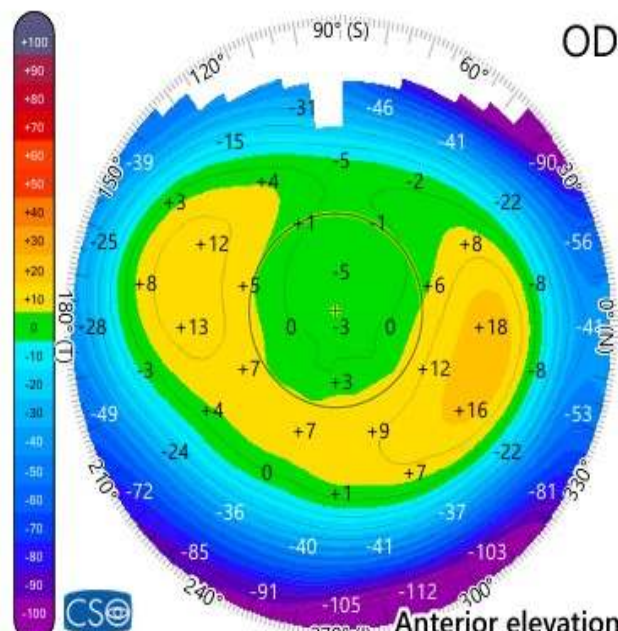
Pupil dilatation
& atony of Iris & Ciliary
Muscle



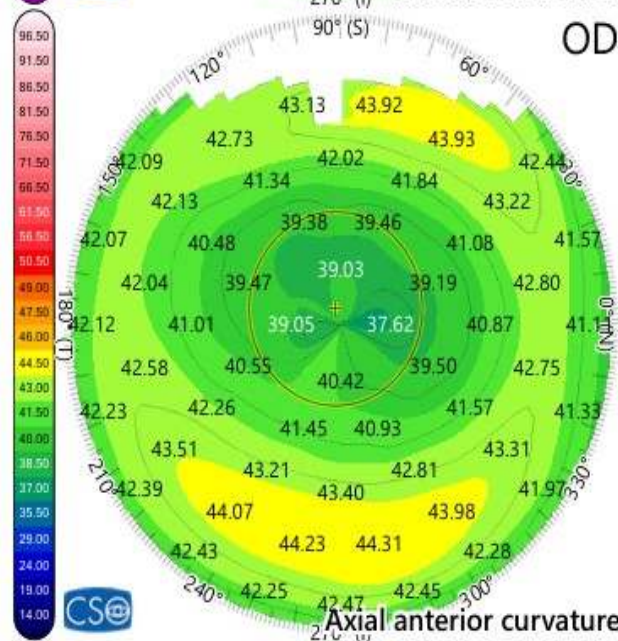
4- The “Dilator”

- Mesopic > 6mm
- Light Color Iris





Anterior elevation



Axial anterior curvature

OD Summary indices

Cornea

CCT	456 μ m
$\diamond$ Thk _{MIN}	453 μ m
$\odot$ K _{FLAT}	47.89 D
$\oplus$ K _{MAX}	-7.04 D
Pupil	
$\star$ Center	-0.11 mm; 0.29 mm
$\varnothing$	3.47 mm

K readings (Anterior)

SimK

K _{FLAT}	39.38 D @ 161°
K _{STEEP}	40.42 D @ 71°
K _{AVG}	39.90 D
Cyl	-1.04 D Ax 161°

Shape indices (Anterior)

$\varnothing$ 6 mm

R _{FLAT}	38.43 D @ 165°
R _{STEEP}	39.48 D @ 75°
Q	1.03
RMS/A	0.05 μ m/mm ²

Keratoconus screening

Curvatures:

$\odot$ SI ^F	0.99 D
CSI ^F	-2.77 D
SI ^B	-0.05 D
CSI ^B	0.16 D

Elevation:

$\odot$ EI ^F	6.19 μ m @ 271°
EI ^B	4.41 μ m @ 260°

Anterior chamber

ACD	4.117 mm
AqD	3.661 mm
Lens rise	0.00 mm
HACD	12.61 mm
Limbus	
$\star$ α -Center	-0.32 mm; 0.00 mm
W-W*	12.11 mm

Meridians $\varnothing$ 3 mm

K _{FLAT}	38.12 D @ 4°
K _{STEEP}	39.75 D @ 94°
K _{AVG}	38.92 D
Cyl	-1.63 D Ax 4°

Refractive analysis

$\varnothing$ 3 mm

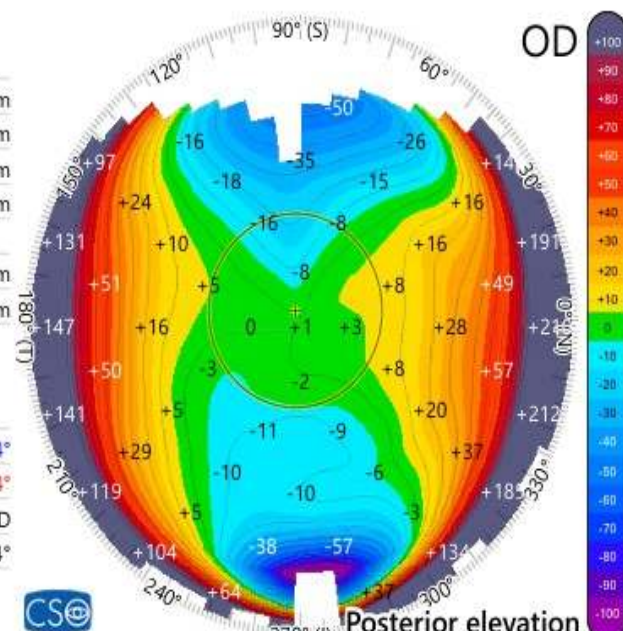
MPP	37.82 D
Cyl	-0.60 D Ax 138°

$\varnothing$ 6 mm

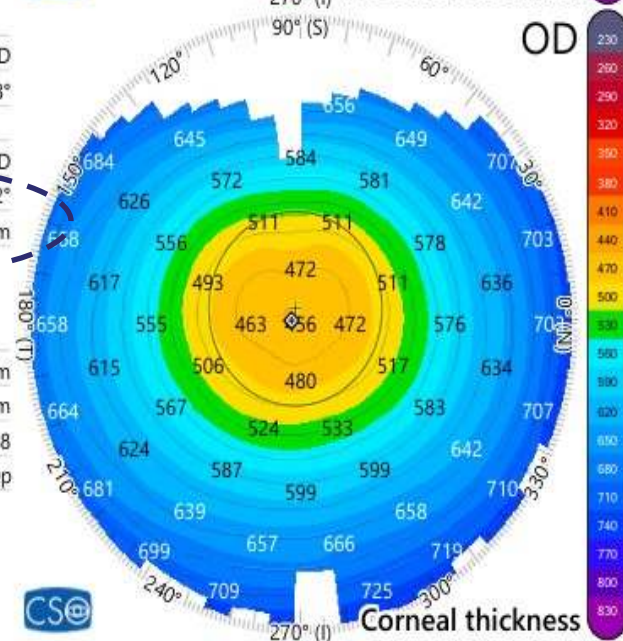
$\odot$ LSA	5.70 D
LCA	1.31 D @ 322°
$\odot$ HOA RMS	1.11 μ m

Corneal thickness:

$\odot$ Thk _{MIN}	453 μ m
TSI	-8.03 μ m
$\odot$ TI	4.58
Classification	Myopic PostOp

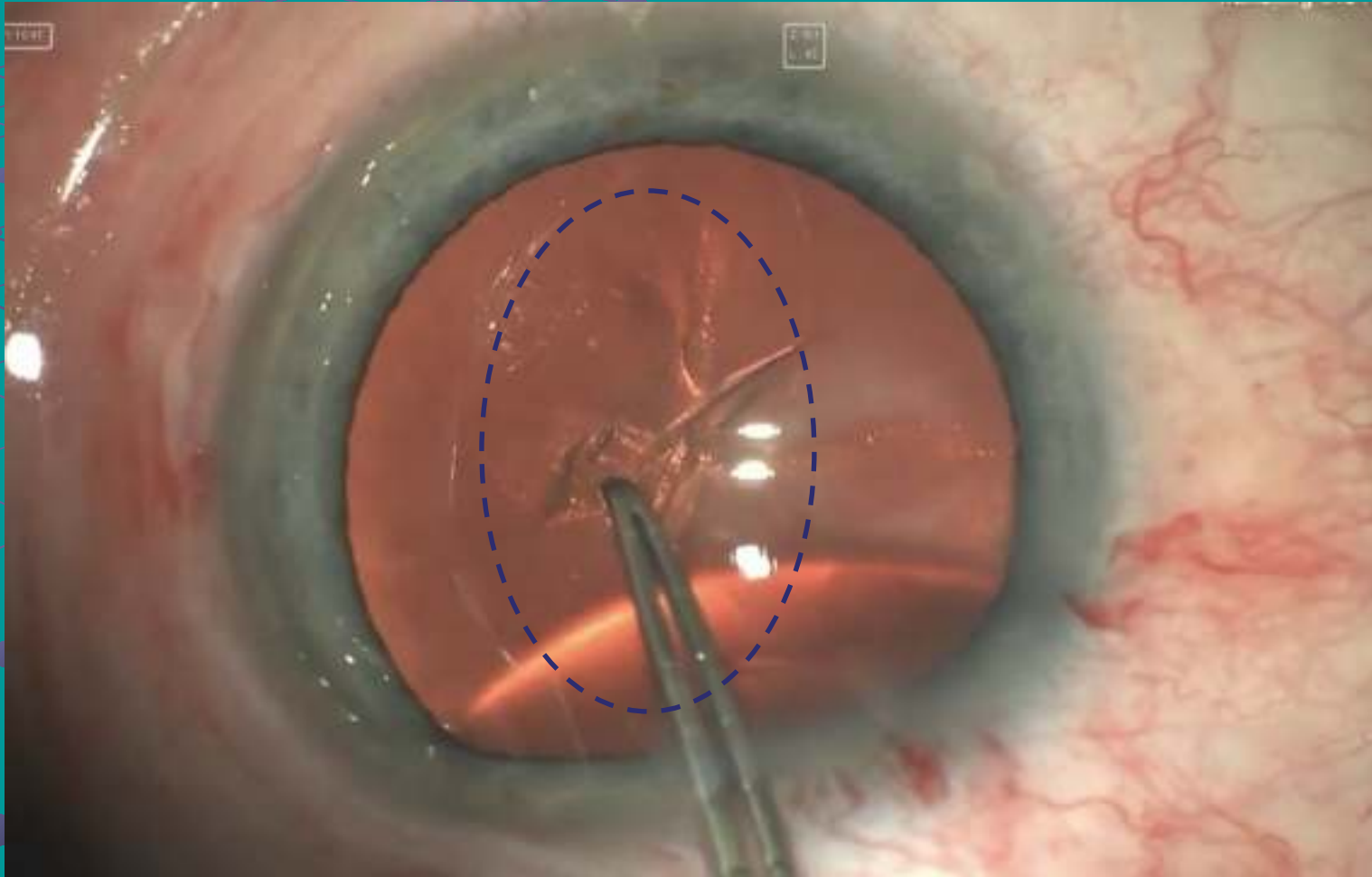


Posterior elevation

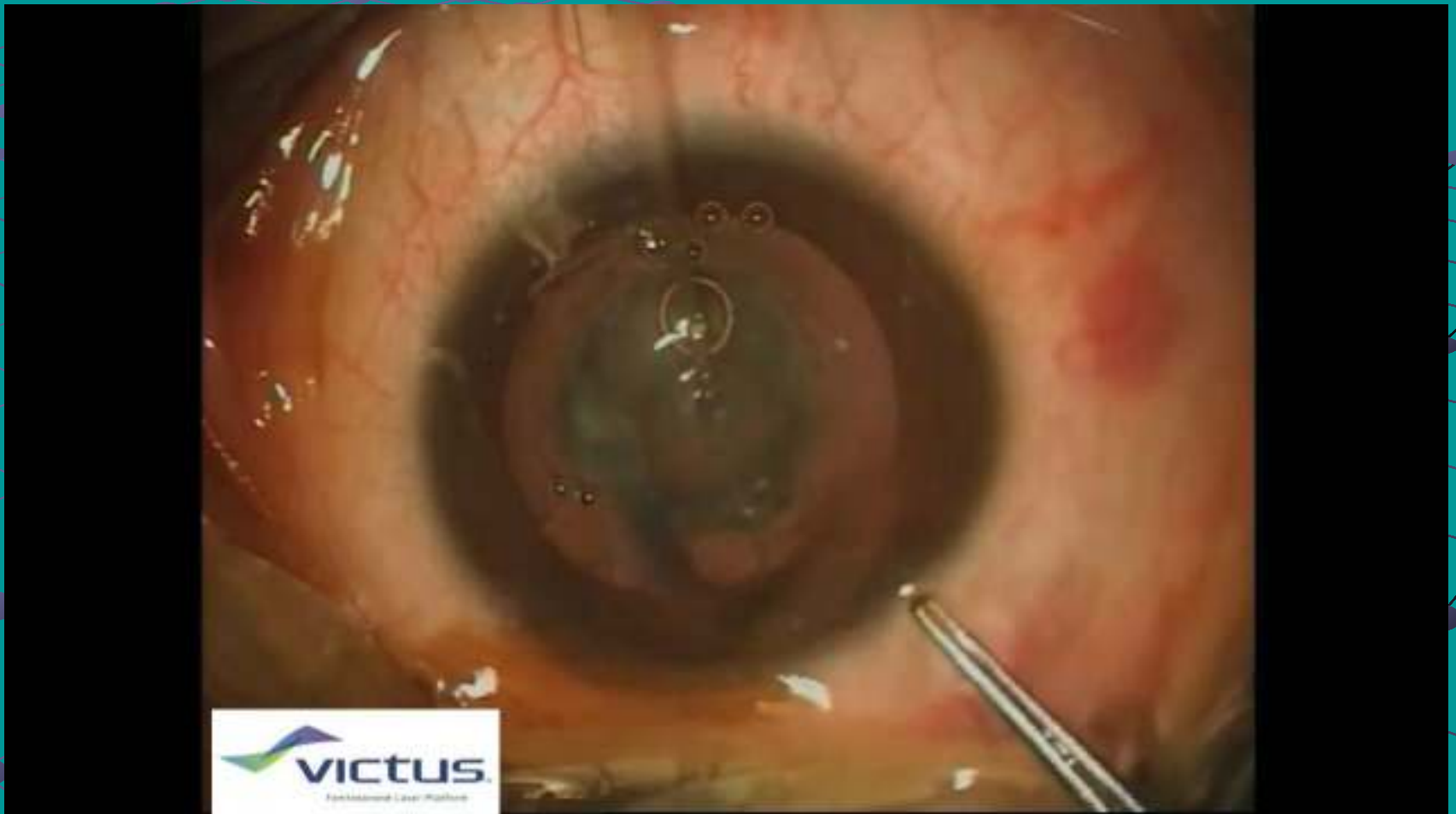


Corneal thickness

6-The Rhexis ... Centralization



Femto - Rhexis



Initiated Cost-effective Study ...

Profitability analysis of a femtosecond laser system

• Investigation •

Profitability analysis of a femtosecond laser system for cataract surgery using a fuzzy logic approach

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INTRODUCTION

The introduction of the femtosecond laser technology in cataract surgery to facilitate and optimize the surgical procedure has supposed a great step forward ^[1]. Specifically,

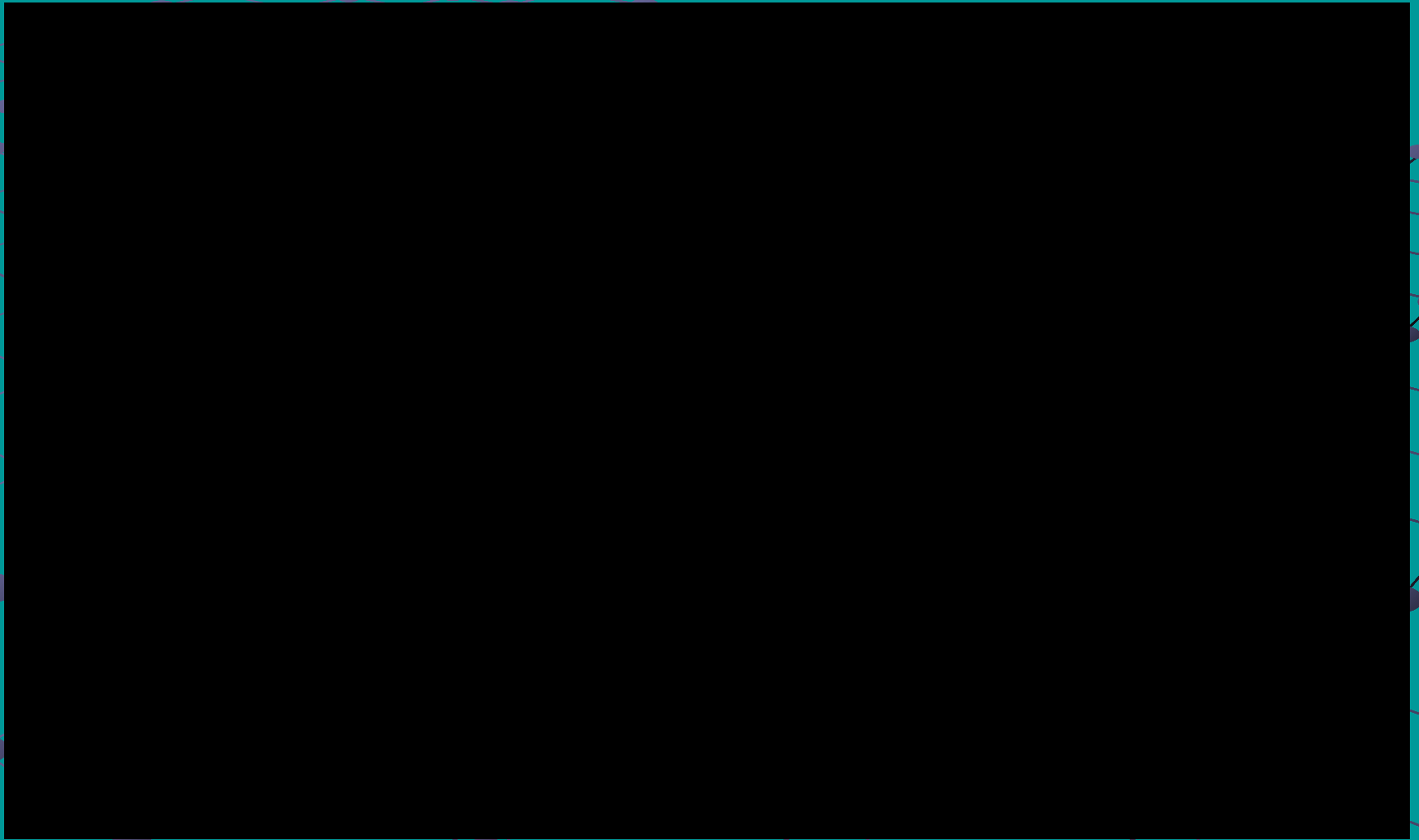
Post-Phaco



Few months Later ... !!!



Femto Rhexis



6-The Young

- The accommodative
- No Glasses
- High Hyperope



7-The “Steeper”

- $K_{\max} > 47 D$
- IOLs Calculation
Several Formulas ..

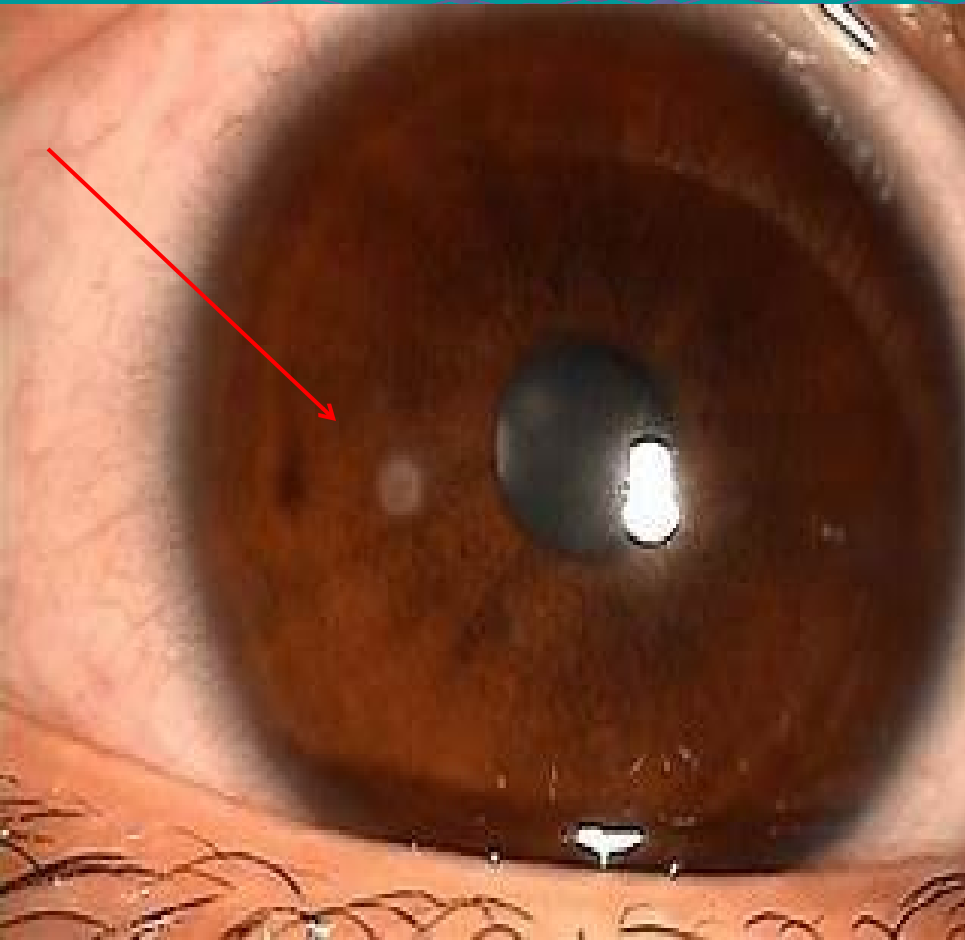


8-Tear Film Help

- Dry Eye



9- Corneal Pathology



10- PRK Refinement **later**

- Last Resort

- Minimum 6 months

Egyptian Oph. Society 1902



Sobhi Bek



17 CAIRO. - Opéra Square. - LL

SELECTA

Save the Date

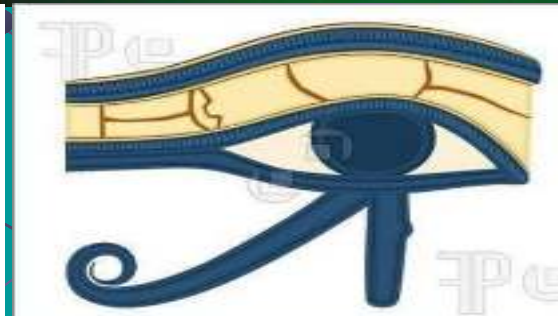
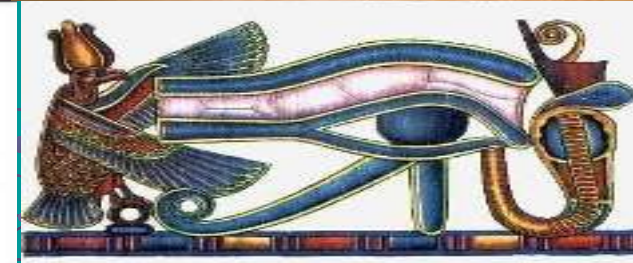
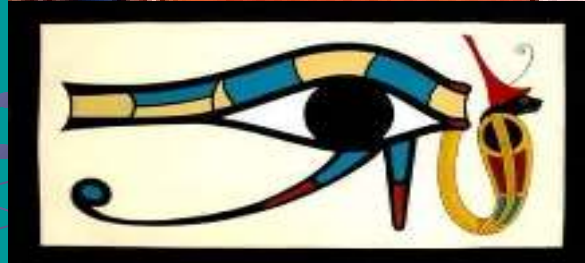


INTERNATIONAL CONGRESS OF THE
EGYPTIAN
OPHTHALMOLOGICAL SOCIETY



Save the Date
29TH APRIL to 1ST MAY
Intercontinental Citystars,
Cairo, Egypt

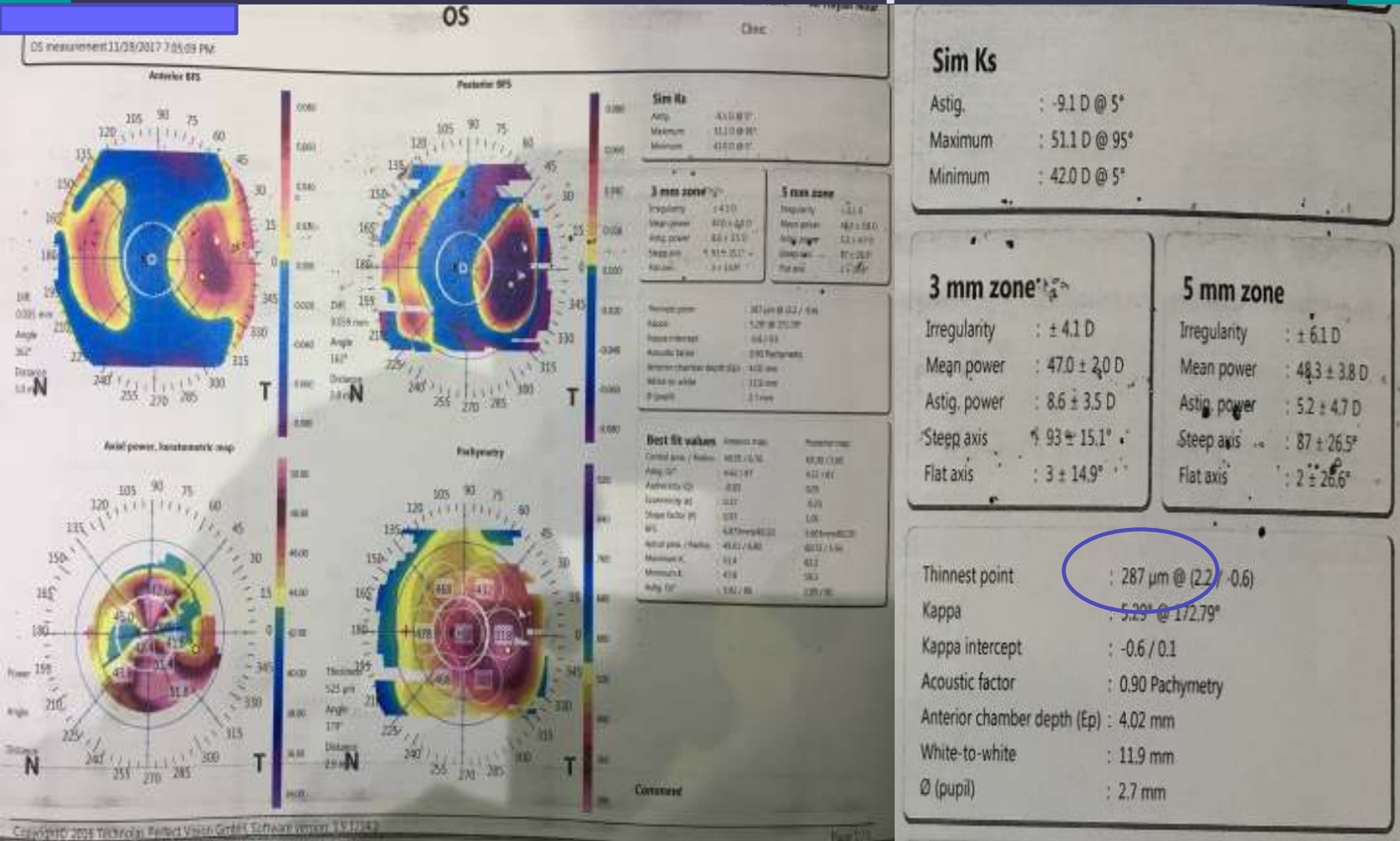

eos-egypt.org

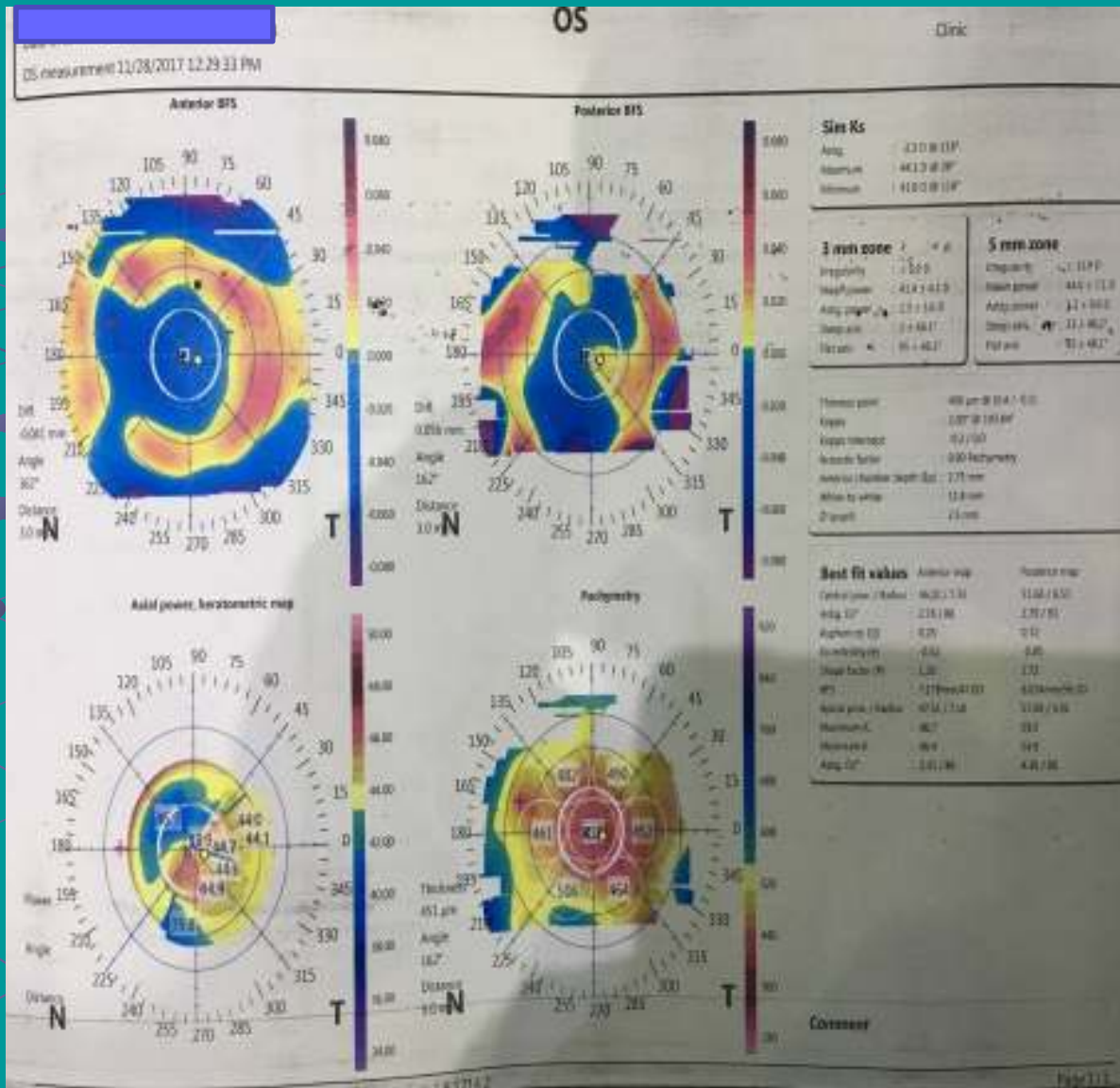


10 to 15% of Capacity



Post-PKP Surprise





Sim Ks

Astig. : -2.3 D @ 118°
Maximum : 44.1 D @ 28°
Minimum : 41.8 D @ 118°

3 mm zone

Irregularity : ± 6.9 D
Mean power : 41.4 ± 4.1 D
Astig. power : 2.3 ± 5.6 D
Steep axis : 1 ± 46.1°
Flat axis : 95 ± 46.1°

5 mm zone

Irregularity : ± 11.9 D
Mean power : 44.6 ± 7.1 D
Astig. power : 1.2 ± 9.6 D
Steep axis : 31 ± 48.2°
Flat axis : 92 ± 48.1°

Thinnest point : 406 µm @ (0.4 / -0.1)
Kappa : 2.00° @ 193.84°
Kappa intercept : -0.2 / 0.0
Acoustic factor : 0.90 Pachymetry
Anterior chamber depth (Ep) : 2.75 mm
White-to-white : 11.8 mm
Ø (pupil) : 2.5 mm