

18th International Conference of the
Research Institute of Ophthalmology

RIO 2026

22 -23 JANUARY 2026
ROYAL MAXIM PALACE KEMPINSKI, CAIRO



**Numbers Guide Us
But Vision Sometimes
Tells A better story**

**Dr. Heba Mohammed Omar
FEBO , ICO**



Patient Presentation

Chief Complaint

- 26-year-old male
- presented with long-standing poor vision in the Right eye .
- seeking for refractive surgery.
- Unable to tolerate spectacles or CLs correction .

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Visual Acuity

Right Eye

UCVA

CF@2m

Refraction:

-10.50 / -2.25 × 70

BCVA

0.05

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Left Eye

UCVA

1.0

Refraction:

+0.75 / -0.50 × 175



Pre-Operative Assessment

Refraction OD

-10.50 / -2.25 × 70

Corneal Topography

Regular pattern

ACD (int) **3.28** mm

Anterior Segment

Healthy clear cornea

Normal IOP

Clear lens

Fundus Examination

Tessellated appearance

No signs of myopic degeneration or retinal pathology

WAVELIGHT - ALLEGRO OCULYZER 4 Maps Refractive

Right eye

Normal

CCT: 508 μ m

ACD: 3.28 mm

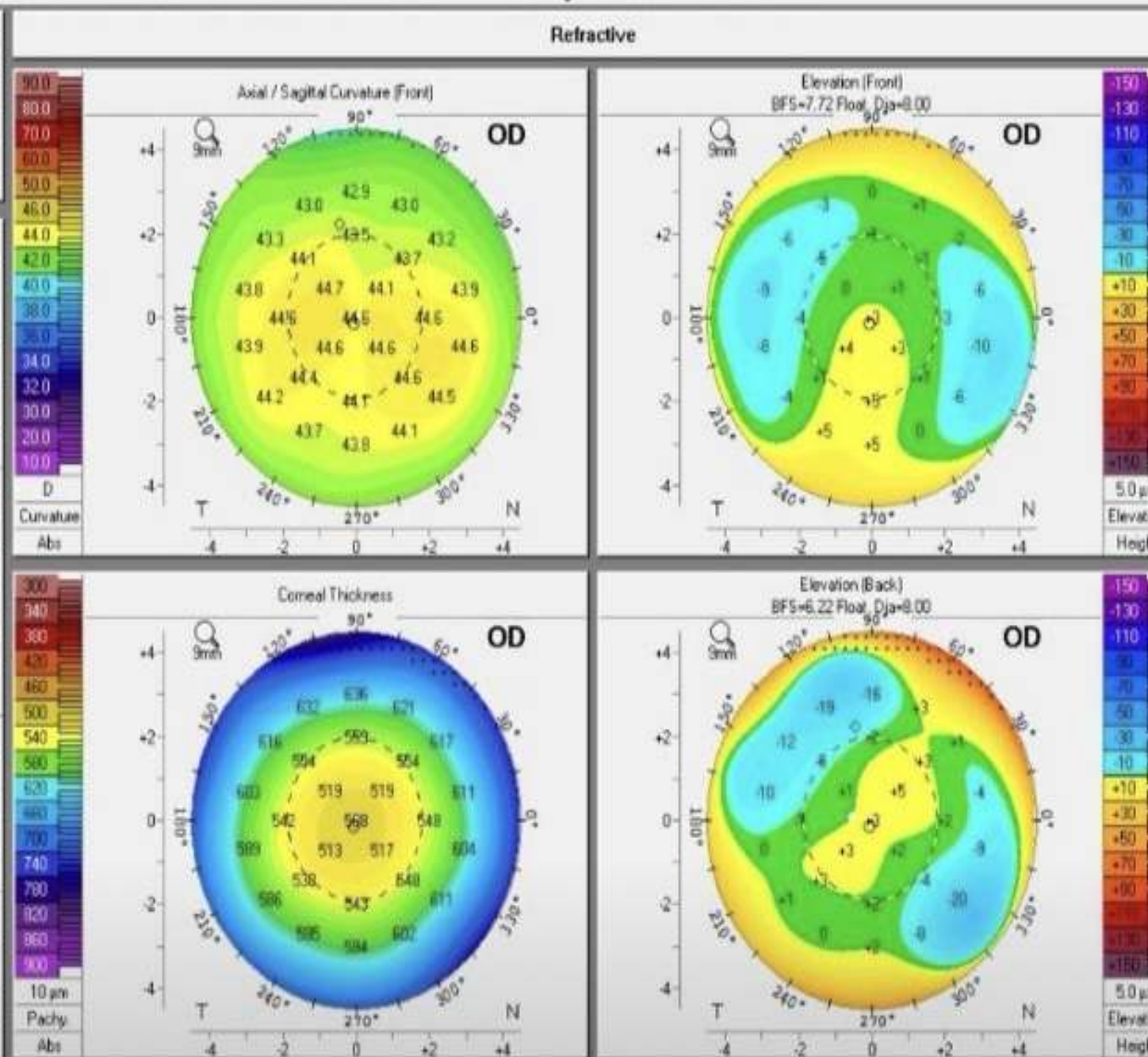
No signs of ectasia.

Last Name:
 First Name:
 ID:
 Date of Birth: Eye: Right
 Exam Date: 16/05/2025 Time: 10:25:31
 Exam Info:



Pupil Center:	+	Pachy:	508 μ m	x(mm)	0.04	y(mm)	+0.02
Pachy Apex:			508 μ m		0.00		0.00
Thinnest Locat.:	O		508 μ m		-0.07		-0.13
K Max (Front):			45.2 D		-0.54		+0.07

Cornea Volume:	59.8 mm ³	KPD:	+1.3 D
Chamber Volume:	212 mm ³	Angle:	35.9°
A. C. Depth (Rt):	3.28 mm	Pupil Dia:	3.77 mm
Enter IOP:	IOP(Sum): +2.6 mmHg	Lens Th:	



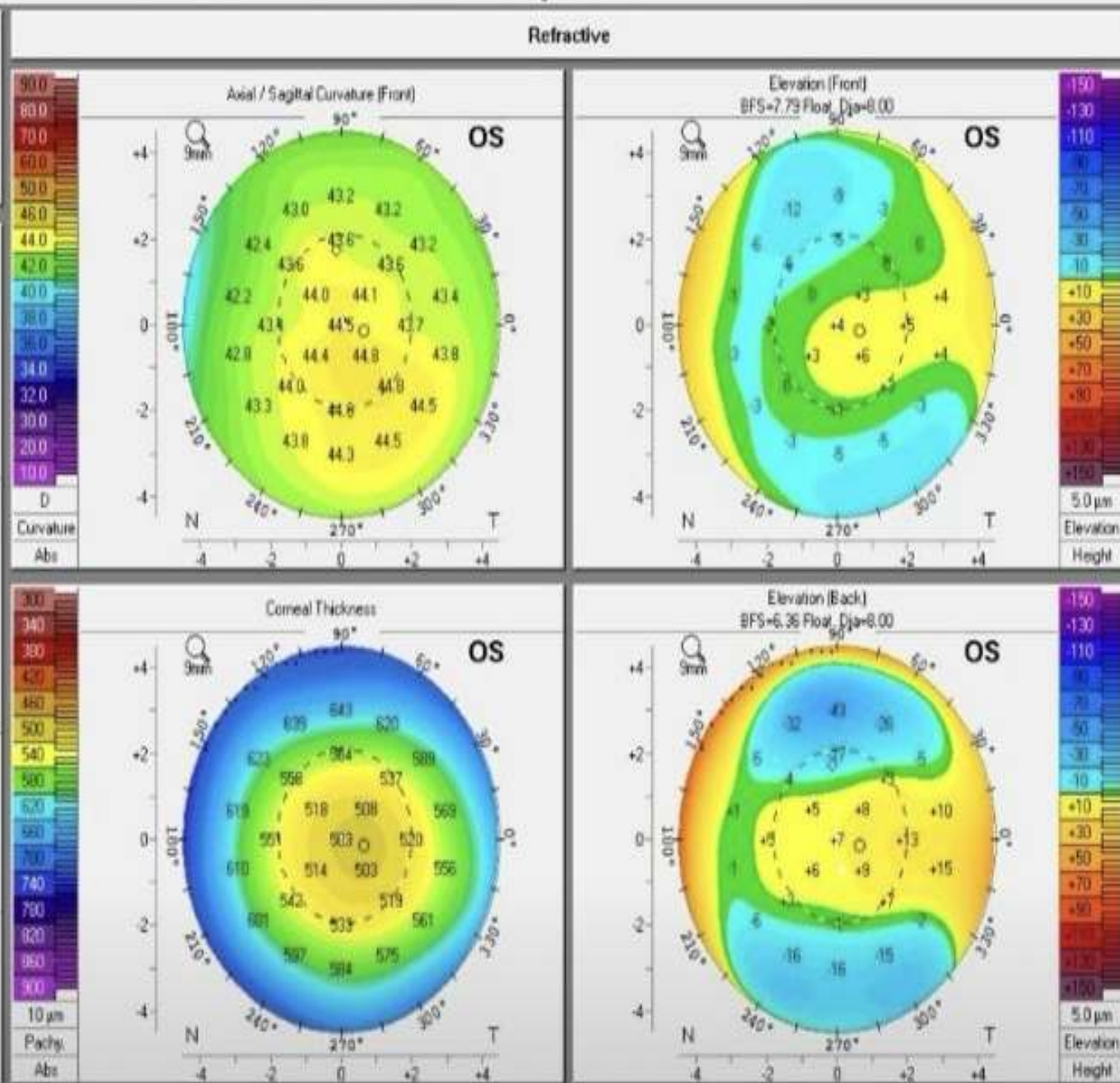
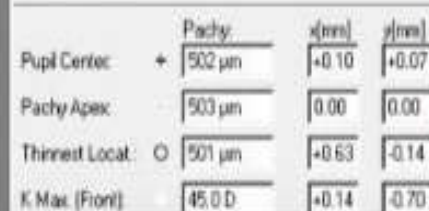
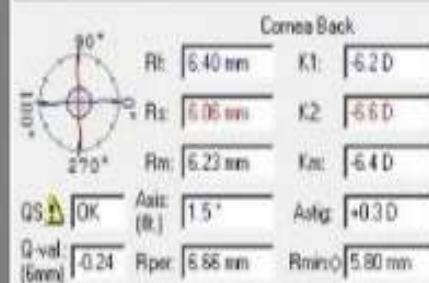
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Left eye

- Inf. steepening
< 1.5 D
- Ocular surface
dryness
- For Regular
follow up

WAVELIGHT - ALLEGRO OCULYZER 4 Maps Refractive

Last Name:
 First Name:
 ID:
 Date of Birth: Eye: Left
 Exam Date: 16/05/2025 Time: 10:27:13
 Exam Info:



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Problem Identification

Anisometropic High Myopia

Adult Amblyopia

Surgical Decision-Making



Clinical Assessment

- Anisometropic High myopia beyond Corneal Ablation range
- Intolerance to both glasses and contact lenses



Phakic IOL Selected

- Reversible
- preserving accommodation



Procedure Completed

- **Implantation of Eyecryl Phakic IOL (-12.00 D)**
(Central Hole , So no need for PI)

Post-Operative Outcomes at 1 Month

UCVA: **0.3**

Refraction

Plano / -1.00 × 85

Clear Cornea
Normal IOP

Reduction in Higher-Order Aberrations

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From Optics To Cortex :

Amblyopia Therapy

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Post-Operative Outcomes at 6 months

UCVA: **0.5**

Refraction

Plano / -0.75 × 80

Clear Cornea
Normal IOP

Key Clinical Pearls



Phakic Iol implantation is an **excellent option** for anisometropic high myopia.



With phakic Iols , Don't expect only better numbers , Expect better **quality of vision** through reduction of HOAs .



Never lose hope in treating adult amblyopia . Neural plasticity sometimes still exists.



Preoperative Numbers guide our decisions but postoperative vision can tell a **better story** ...

THANK YOU

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