

What are factors that affect the results of ring implantation ????

Age as a guideline

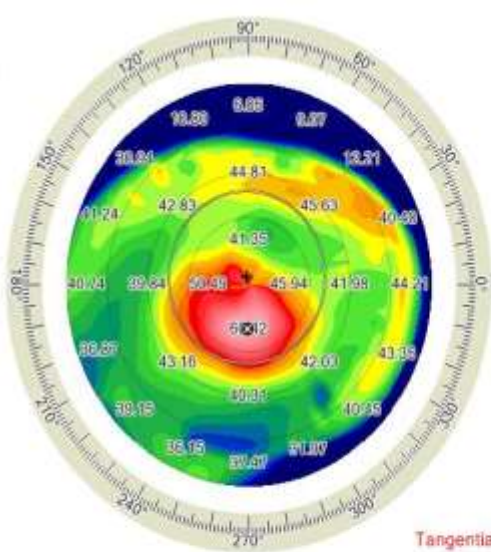
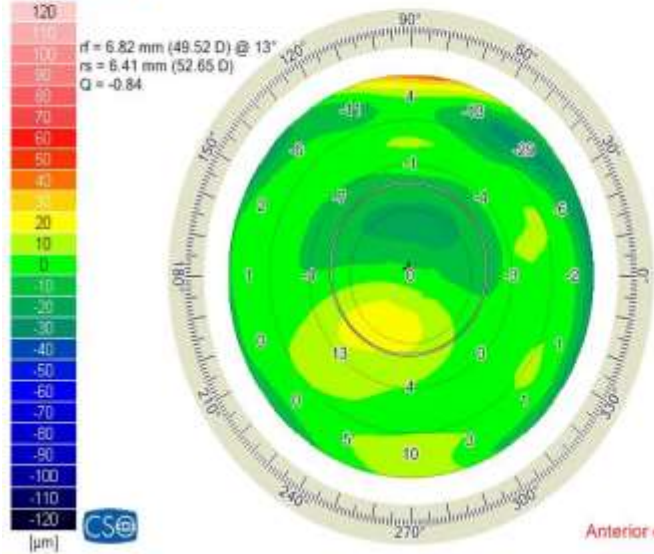
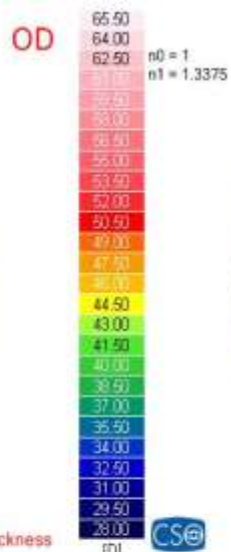
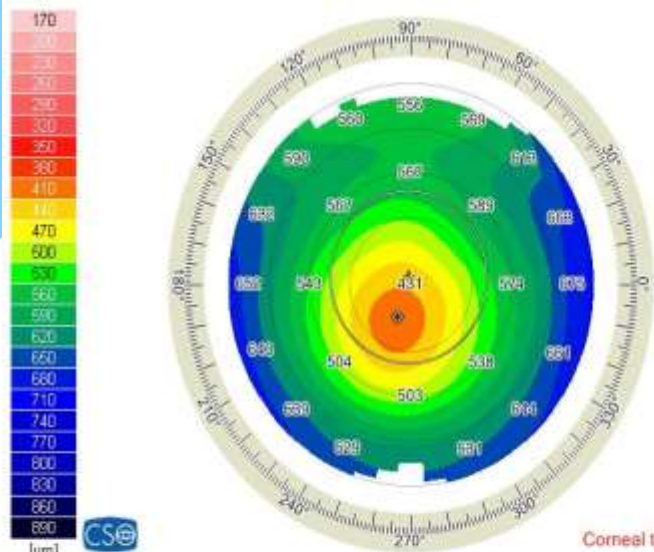


A 23 ys female with bil. Keratoconus Rt. Eye is advanced more than Lt. eye.

Preoperative refraction of Rt. eye : -6.00 Ds -3.50 Dc

UNCVA : 4/60

BCVA : 6/30



Asmaa, Farrag Hamdan - OD

Birthdate: 01/01/1992
 Identification code: 101349
 Exam date and time: 07/10/2013 1:23 AM
 Acquisition date: 07/10/2013 01:27:57 [7-3]

Acquisition quality

Summary Indices

Horizontal Visible Iris Diameter
 HVID = 11.74 mm

+ Pupil (Topographic)
 $x = -0.06 \text{ mm, } y = 0.17 \text{ mm}$
 $\varnothing = 3.86 \text{ mm}$

◆ Thinnest location
 $x = -0.32 \text{ mm, } y = -0.73 \text{ mm}$
 Thk = 405 μm

⊙ Apex
 $x = -0.02 \text{ mm, } y = -1.00 \text{ mm}$
 Thk = 412 μm Curv = 60.47 D

Anterior chamber
 CCT = AD = 0.431 + 3.15 = 3.58 mm
 Volume = 155 mm³
 Iridocorneal angle = 44°
 HACD = 11.76 mm

Corneal volume ($\varnothing = 10 \text{ mm}$)
 Volume = 52.2 mm³

K readings (Front)

Sim-K

$n0 = 1, n1 = 1.3375$

Sim-K

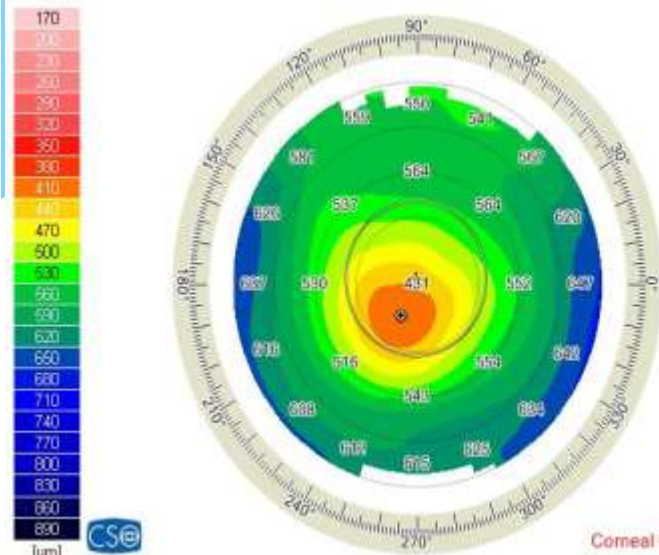
K1 = 47.61 D @ 26°
 K2 = 50.65 D @ 110°
 Avg = 49.19 D
 Cyl = -2.84 D Ax 28°

Postoperative refraction of Rt. eye : -2.50

Ds -1.50 Dc

UNCVA : 6/30

BCVA : 6/18



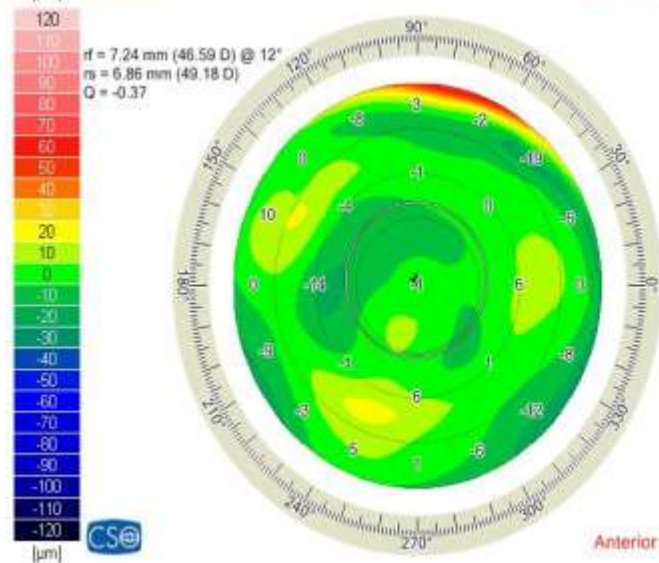
Corneal thickness

OD



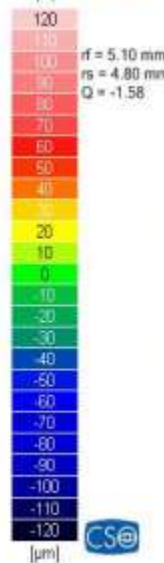
Tangential anterior

OD



Anterior elevation

OD



Posterior elevation

OD

Asmaa, Farrag Hamdan - OD

Birthdate: 01/01/1992
 Identification code: 101349
 Exam date and time: 18/01/2014 6:36 AM
 Acquisition date: 18/01/2014 06:37:45 [1-1]

Acquisition quality

Summary indices

Horizontal Visible Iris Diameter
 HVID = 11.87 mm
 Pupil (Topographic)
 $x = -0.04 \text{ mm}$, $y = 0.14 \text{ mm}$
 $\phi = 3.43 \text{ mm}$
 Thinnest location
 $x = -0.39 \text{ mm}$, $y = -0.70 \text{ mm}$
 Thk = 393 micrometers
 Apex
 $x = -1.58 \text{ mm}$, $y = 2.78 \text{ mm}$
 Thk = 564 micrometers, Curv = 58.71 D
 Anterior chamber
 CCT + AD = 0.431 + 3.27 = 3.70 mm
 Volume = 149 mm³
 Indocorneal angle = 47°
 HACD = 11.59 mm
 Corneal volume ($\phi = 10 \text{ mm}$)
 Volume = 52.2 mm³

K readings (Front)

Sim-K
 $n_0 = 1$, $n_1 = 1.3375$
 Sim-K
 K1 = 46.28 D @ 10°
 K2 = 48.06 D @ 100°
 Avg = 47.15 D
 Cyl = -1.78 D Ax 10°



Symmetry of Bowtie as a guideline



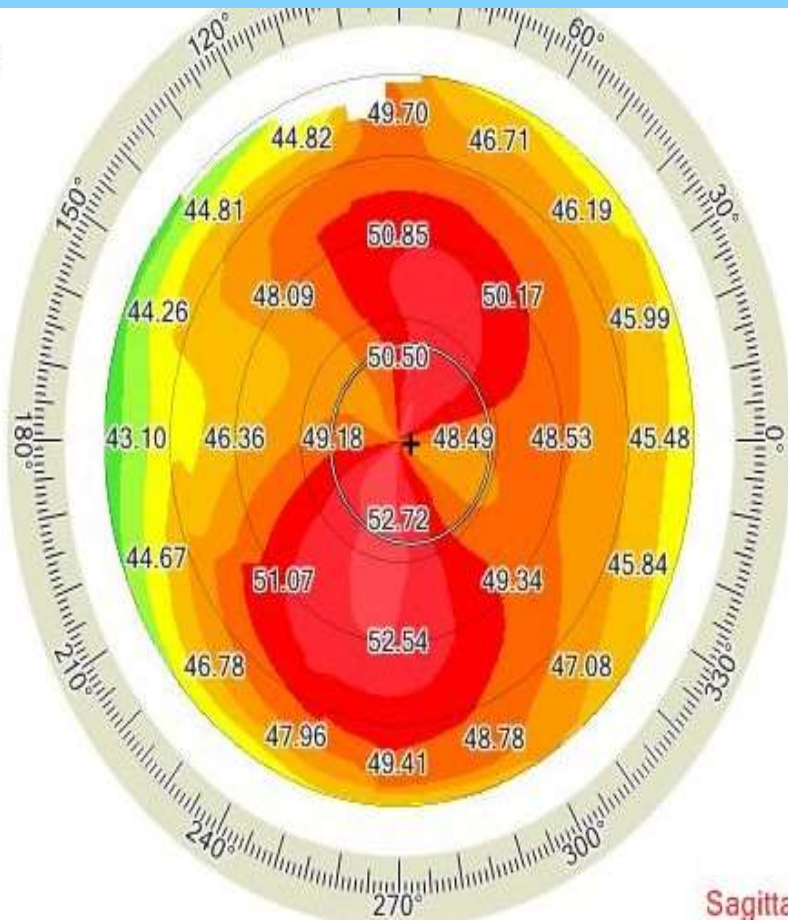
A 37 ys male with bil. Keratoconus Rt. Eye is advanced more than Lt. eye.

Preoperative refraction of Rt. eye : -4.25 Ds -
7.00 Dc

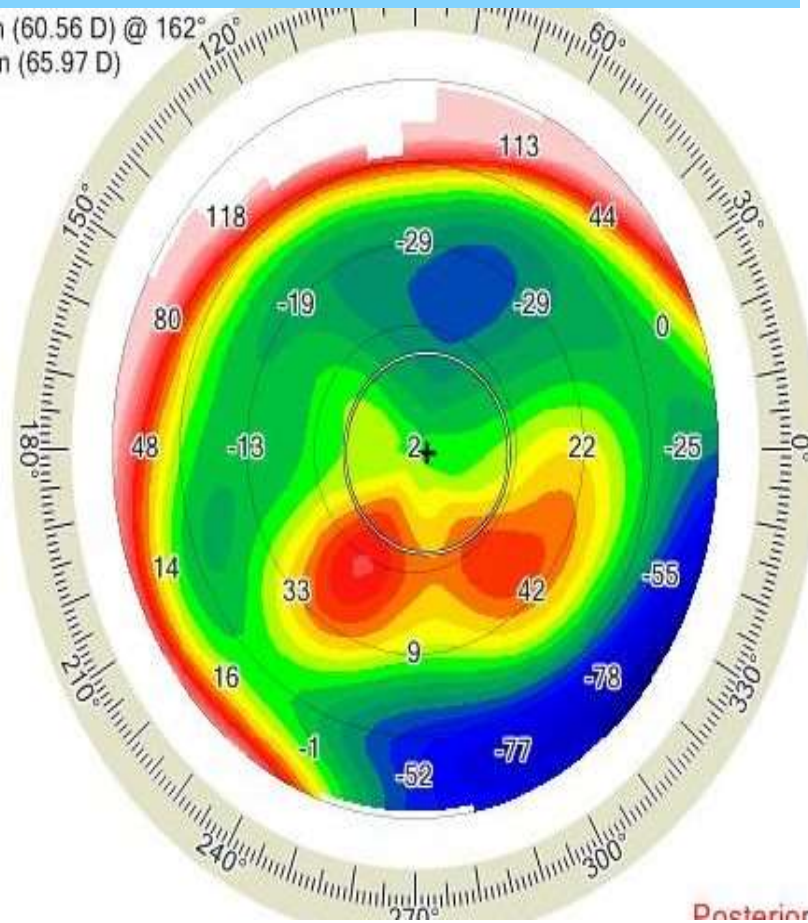
UNCVA : 3/60

BCVA : 6/38

$n_0 = 1$
 $n_1 = 1.3375$



5.57 mm (60.56 D) @ 162°
5.12 mm (65.97 D)
-0.50



Sagittal as

Doctorio

Postoperative refraction of Rt. eye : +1.00

Ds -1.0 Dc

UNCVA : 6/38

BCVA : 6/18

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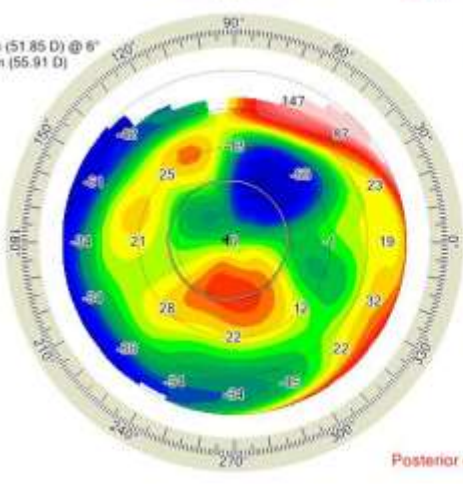
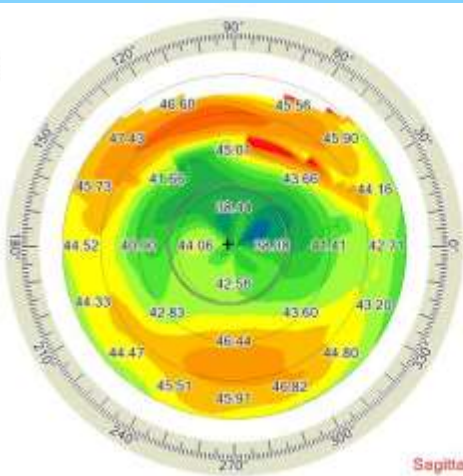
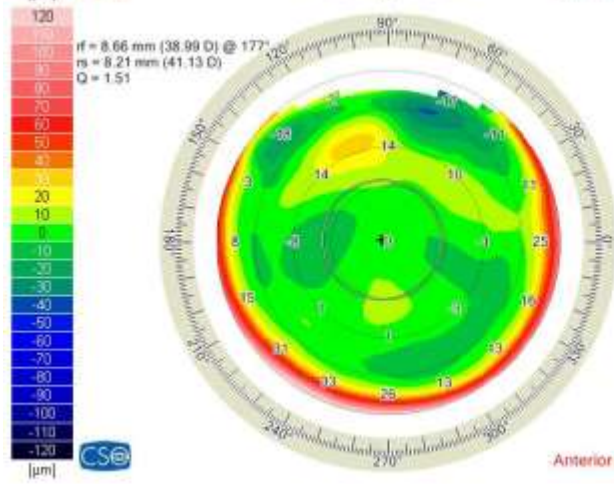
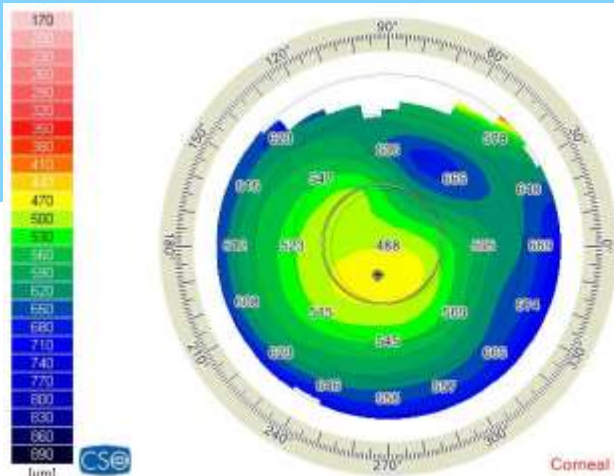
NAME

M/F

2015. 10. 10 05:33 PM

VD=12.00mm

<R>	S	C	A	
	+ 1.75	- 1.25	97	5
	+ 1.75	- 0.75	99	5
Err	+ 1.75	- 0.50	92	E
Err	+ 2.00	- 0.75	95	E
Err	+ 2.00	- 1.00	109	E



Ashraf, Saad Shiba - OD
 Birthdate: 21/08/1978
 Identification code: 815397
 Exam date and time: 10/10/2015 7:30 AM
 Acquisition date: 10/10/2015 07:31:46 (1-2)

Acquisition quality

Summary Indices

- Horizontal Visible Iris Diameter
 HVID = 12.15 mm
- Pupil (Topographic)
 $x = -0.17 \text{ mm}, y = 0.07 \text{ mm}$
 $\phi = 3.11 \text{ mm}$
- Thinnest location
 $x = -0.27 \text{ mm}, y = -0.75 \text{ mm}$
 Thk = 464 μm
- Apex
 $x = 0.94 \text{ mm}, y = 2.43 \text{ mm}$
 Thk = 674 μm Curv = 84.13 D
- Anterior chamber
 CCT - AD = 0.468 + 3.19 - 3.67 mm
 Volume = 157 mm³
 Indocorneal angle = 47°
 HACD = 12.05 mm
- Corneal volume ($\phi = 10 \text{ mm}$)
 Volume = 54.3 mm³

K readings (Front)

Sim-K

$n_0 = 1, n_1 = 1.3375$

Sim-K

K1 = 39.86 D @ 167°
 K2 = 41.23 D @ 77°
 Avg = 40.53 D
 Cyl = -1.37 D Ax 167°