

# REFRACTIVE LENS EXCHANGE FOR TORIC CUSTOMIZED FIL611T (SOLEKO,ITALY) INTRAOCULAR LENS (IOL) IN THE EYES WITH INDUCED ASTIGMATISM AFTER PREVIOUSLY PERFORMED CORNEAL SURGERY AND IN THE EYES WITH HIGH IRREGULAR ASTIGMATISM

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No financial interest

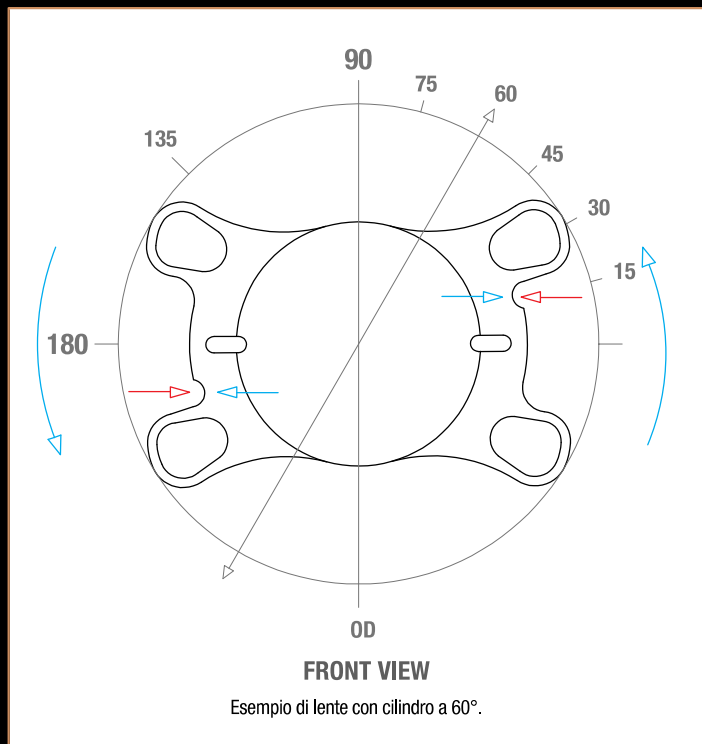


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# GOAL

To evaluate visual outcomes, refractive results, efficacy and stability with time after customized toric IOL (Soleko, Italy) implantation in the eyes with high irregular astigmatism



Toric hydrophilic customized lens FIL611 (Soleko, Italy) with axis of the cylinder set during construction, so that the lens is always implanted with the reference marks positioned on the axis 0-180

Number eyes	Previously performed surgery		intact eyes with no corneal surgery performed
	PKP	RK	Keratoconus and high astigmatism
5	2	1	2

Age from 27 to 61 YO	
Follow up period	6 months

Examinations :

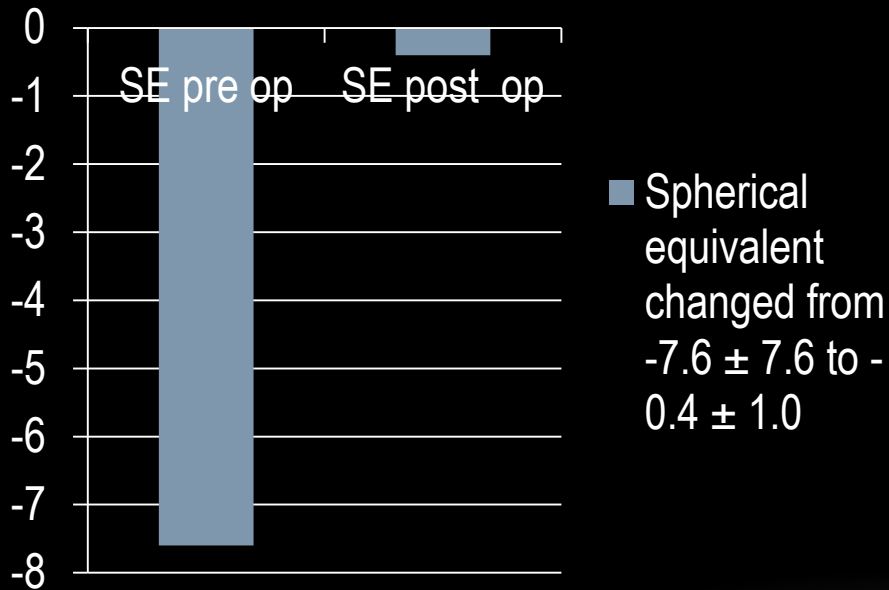
- Autorefractokerotometry Tomey (Japan)
- BCVA/CDVA Huvitz ( Korea)
- Eye biometry: AX length, AC depth, WW measurements IOL Master Carl Zeiss, Meditec,( Germany)
- Anterior and posterior OCT , Visante/ Cirrus, Carl Zeiss Meditec,( Germany)
- Wave front aberrometry , pupil size measurement in photopic & scotopic conditions L80 Wave+ ,Visionics(Fr)
- IOP measurements Tomey (Japan)
- Corneal topography, Atlas, Carl Zeiss Meditec, Germany
- Endothelium Cells Count (ECC), Tomey (Japan)
- IOL power calculations provided by Soleko

Surgical Procedure:

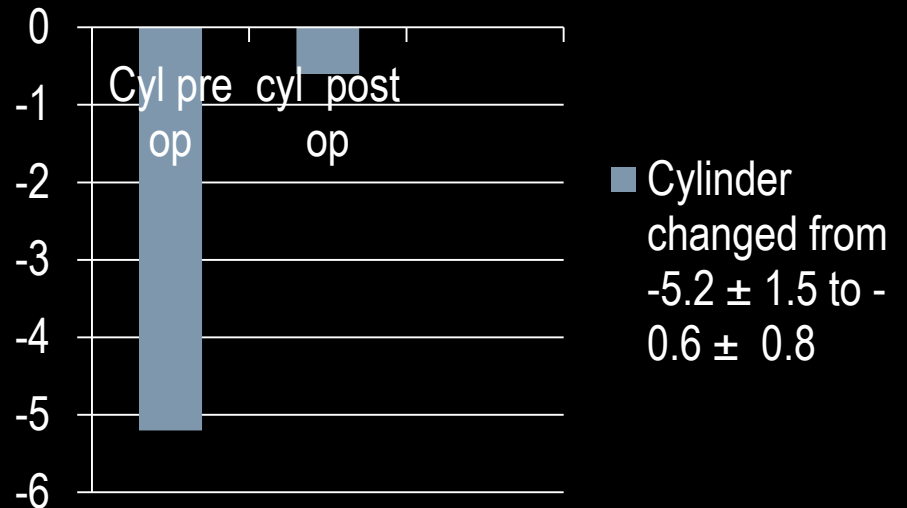
- MICS with Infinity Phaco System (Alcon, USA)
- Toric hydrophilic customized lens, ELL 611 (Soleko, Italy) implanted in all the eyes

# SE AND CYLINDER CHANGED

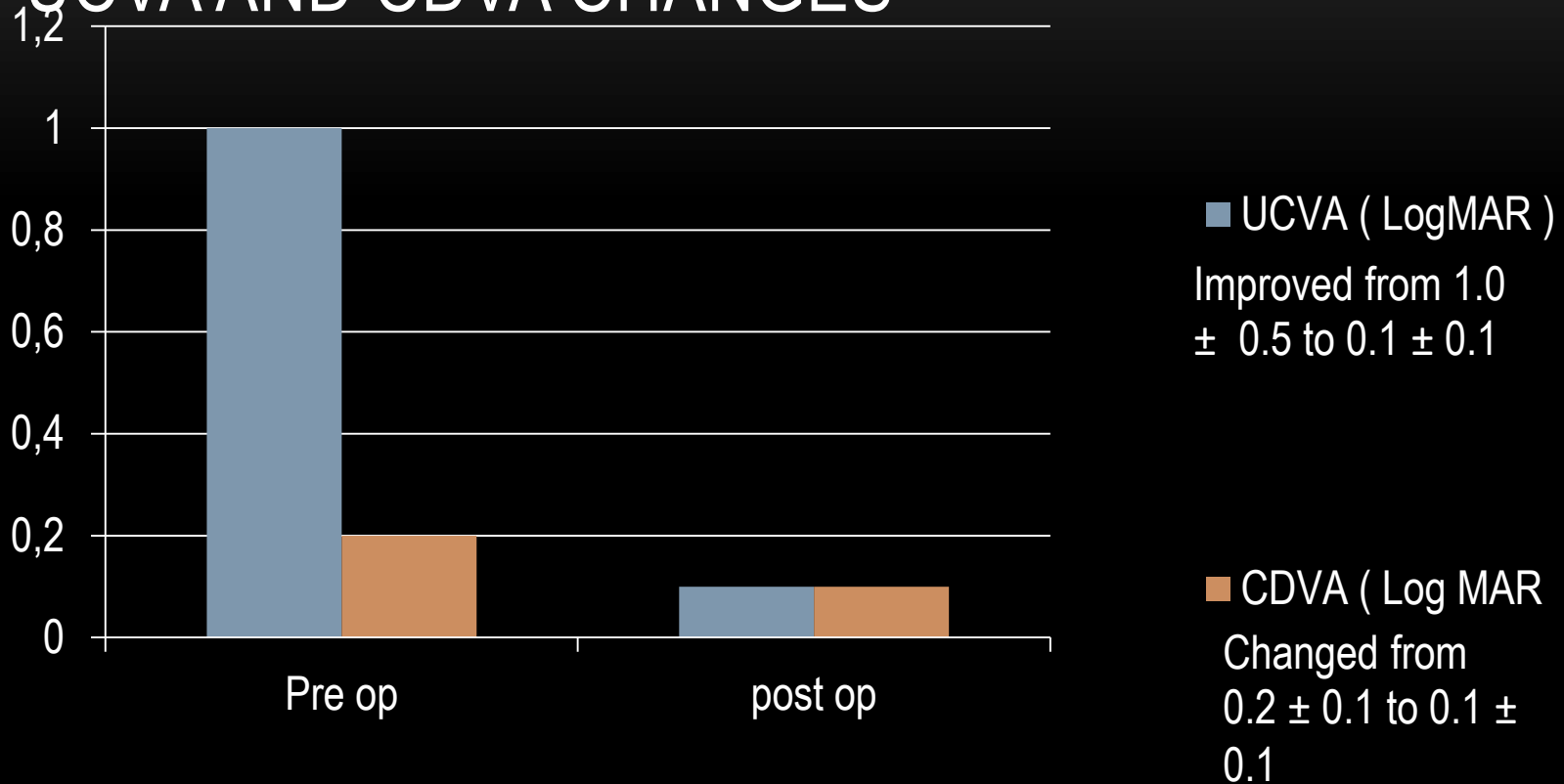
**Spherical equivalent changed  
from  $-7.6 \pm 7.6$  to  $-0.4 \pm 1.0$**



**Cylinder changed from  $-5.2 \pm 1.5$   
to  $-0.6 \pm 0.8$**



# UCVA AND CDVA CHANGES



- IOL position at 0-180 degree remained stable
- No EC loss in follow up period

# CONCLUSION

- The customized FIL611T IOL ( Soleko. Italy) implantation shows good visual outcomes, efficacy and stability in time in cases with induced astigmatism after previously performed corneal surgery and in the eyes with high irregular astigmatism
- Customized Cyl axis set during IOL manufacturing is a big advantage for precise IOL positioning and no need of it rotation inside the bag. IOL design helps to avoid rotation in time of follow up

